Badger State

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

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Wisconsin State Assemblyman Visits Club's Field Day Site; Sees Amateur Radio Work Under Simulated Emergency Conditions



Wisconsin State 42nd Assembly District Representative Ben Brancel (R-Endeavor), at left, visited the Field Day operating site of the Yellow Thunder Amateur Radio Club to observe radio amateurs operating stations independent of commercial power and under conditions which often follow disasters. Rep. Brancel asked questions about Amateur Radio in general, and emergency communications in particular, to learn how restrictive tower ordinances will adversely affect radio amateurs' emergency communications capabilities. Among those at the site answering Rep. Brancel's questions and providing him with technical information were former ARRL Section Communications Manager and former Central Division ARRL Director Ken Ebneter, K9EN, center, and a visiting amateur at right. The visitor, Robert Madson, N9QXM, is from Racine county, where an unduly restrictive ordinance was approved 33-0 by that county's board of supervisors early this year; Madson spoke with Rep. Brancel about the Racine county tower law. That ordinance, which most likely does not conform to the "reasonable accommodation" provision of the FCC's PRB-1 Doctrine of Federal Preemption, and which limits amateurs' ability to perform emergency communications work, may be modified by the Racine county board, according to Bob Jensen, W0WLN. Please see the story at right.

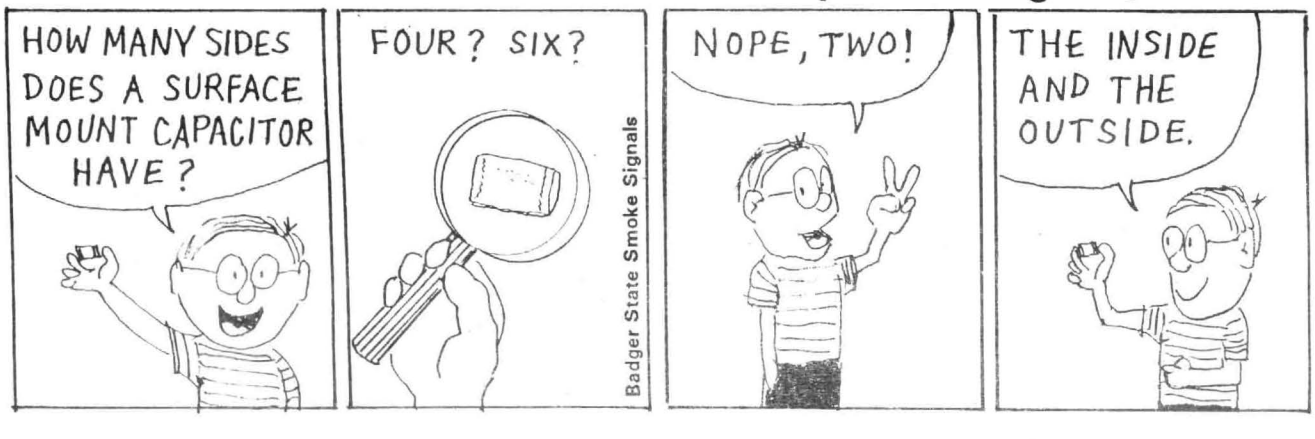
NSS Balloon Flight Set for August 6

Near Space Sciences (NSS) has scheduled its next balloon-carried Amateur Radio flight for Saturday, August 6. The package is reported to be a 2-meter input, 440 MHz output crossband repeater.

See page 7 of this issue of *Badger State Smoke Signals* for the story of the June 18 flight, written and photographed by Don Dvenson, K9JYX. □

ELMER

By Rich Regent, K9GDF



Beam Your Antenna Tower Restriction to Our SGL

By Richard R. Regent, K9GDF
Section Manager, Wisconsin Section ARRL
5003 South 26th Street, Milwaukee, WI 53221

Most Radio Amateurs cringe when they hear of the threat of a local government's plans to restrict tower or antenna height. Recently, the *BSSS* Editor, K9ZZ, had a phone conversation with David Sumner, K1ZZ, our ARRL Executive Vice President, on this very subject. David says, "It's important to get the word out and work together at the state level when there's talk of potential effects on Amateur Radio from tower restrictions." What Dave suggests is that in Wisconsin we must continue to discuss such situations with other amateurs, especially at local club meetings. Heading off potentially limiting government actions is critically important to all amateurs.

Fortunately, a reassuring resource is available through our ARRL State Government Liaison (SGL) Verne Teske, W9RYA, 3260 Carol Court, Oak Creek, WI 53154. Verne is cognizant of Wisconsin legislative proposals which could conflict with Amateur Radio and is a strong supporter of Amateur Radio and an active member of both the ARRL and the South Milwaukee RAC.

An SGL collects information about local and state regulations affecting Amateur Radio and works with the assistance of other ARRL members toward assuring that the ordinances are to the mutual benefit of both society and of the Amateur Radio Service. The SGL guides, encourages and supports ARRL members in representing the interests of Amateur Radio Service at all levels.

Verne is working with his friend, State Representative Richard Grobschmidt, to prevent unduly restrictive ordinances for amateur radio towers.

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WHAT'S HAPPENING

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests

and Other Social Events

SUNDAY, AUGUST 7, 1994 The Marshfield Area Amateur Radio Society will be holding their 3rd annual picnic. Gather around 11:00 a.m. Potluck & Swapfest. Held in Wildwood Park, Marshfield WI. Talk in on 147.180 MHz. All welcome. Contact: Guy Boucher, KB9GPJ, 107 West Third ST., Marshfield, WI 54494. (715) 384-4323. Or via packet: KB9GPJ@W9IHW.WI.USA.NA

SUNDAY, AUGUST 14, 1994. Summerfest '94 at 500 "J" Street S.W., Cedar Rapids, IA 52404. Contact: Wayne Harray, KE0MS (319) 848 7481.

SATURDAY, AUGUST 27, 1994. Northwoods Amateur Radio Swapfest, at Sugar Camp Town Hall, 12 miles north of Rhinelander, WI on Highway 17. Contact: Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 27, 1994. Hobby electronics swapmeet, sponsored by the Riverland ARC and the Western Wisconsin Antique RC. Held at the American Legion Activity Building, 731 Sand Lake Road, Onalaska, WI. Admission: $2.00, Tables, $3.00 (picnic type, first come basis). Contact: Clarence Crum, N9NXW, 106 N. First, Arcadia, WI 54612. (608) 323-3644.

SUNDAY, AUGUST 28, 1994. Woodstock, IL, Mc Henry county fairgrounds, Route 47 just north of route 14. Contact TCRG, PO box 3107, Skokie, IL 607-7106.

SUNDAY, SEPTEMBER 11, 1994. RADIOFEST Hamfest & Computer Expo, at the Tri-State Blind Society, 3333 Asbury Rd., Dubuque, IA. Contact: Gerald lange, 2191 Graham Circle, Dubuque, IA 52002 (319) 556-3050 or Loren Heber, N0YHZ, 9479 Lauderville Rd., Dubuque, IA 52003. (319) 556-5755.

SEPTEMBER 17-18, 1994. SUPERFEST, Peoria, IL. Contact: Peoria Area ARC., PO Box 3508, Peoria, IL 61612-3508. (309) 685-6698.

SEPTEMBER 24-25, 19994. RADIO EXPO. Lake County Illinois Fairgrounds, Rts. 45 & 120, Grays lake, IL. Contact: Chicago FM Club, PO Box 1532, Evanston, IL 60204.

SUNDAY, OCTOBER 23, 1994. KMRA Swapfest, Waukesha, WI.

SATURDAY, NOVEMBER 5, 1994. The Milwaukee Repeater Club is proud to sponsor the 10th annual "6.91" Friendly Fest" from 8:00 a.m. to noon. (sellers admitted at 7:00 a.m.) NEW LOCATION: Waukesha County Expo Center Arena. VE testing. Contact Milwaukee Repeater Club, Inc., PO box 2123, Milwaukee, WI 53201.

NOVEMBER 19-20. Fort Wayne Hamfest, Allen County War Memorial Coliseum Exposition Center. Contact: ACARTS, PO B ox 10342, Fort Wayne, IN 46851.

SUNDAY, JANUARY 8, 1995. Midwinter Swapfest sponsored by the West Allis RAC. Contact WARAC, PO Box 1072, Milwaukee, WI 53201.

TUESDAY, FEBRUARY 28, 1995. Northern Wisconsin Radio Club Auction. Contact: Steve Hart, KA9OMC, Route 1, Box 54, Knapp, WI 54749.

SUNDAY, APRIL 2, 1995. Madison Swapfest. Contact: MARA, PO Box 8890, Madison, WI 53708-8890.

SATURDAY, MAY 13, 1995. Lakeshore Hamfest. Contact: ManCoRad. PO Box 204, Manitowoc, WI 54221-0204.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebneter, K9EN, 822 Wauona Trail, Portage, WI 53901.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the March 1994 meetings column for the latest complete listing. The following are additions or changes since that listing.

ARROWHEAD RADIO AMATEUR CLUB, INC.
(Superior, WI)

The monthly meeting of the ARAC is held on the second Tuesday of the month at the WITC Conference Center, 600 N. 21st Street, Superior, WIsconsin, at 7:30 p.m. Board meetings are held prior to the regular meeting.

THE WINNEBAGO AMATEUR RADIO CLUB
(Formerly the Oshkosh Amateur Radio Club)

The Winnebago ARC welcomes all Amateurs and interested persons to join us at the Omro City Hall, on Webster Street. Meetings held the third Sunday each month, weather permitting. Talk in on 147.24 repeater.

For further information contact KB9IME, Dan Lenz, at (414) 233-7145.

MILWAUKEE RADIO AMATEURS CLUB

Last Thursday evening, Wauwatosa Savings and Loan (lower level) at 7500 W. State St. in Wauwatosa. Meetings begin at 7:30 pm 12 months of the year.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Scheduled meeting dates:

The following is the YTARC meeting schedule for 1994.

Aug. 17	Fox Hunt
Sep. 15	ELECTIONS
Oct. 18	ATV (amateur television).
Nov. 16	Packet radio and computers.
Dec. 15	CHRISTMAS PARTY

All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

August 6, 1994	River Falls, WI
August 6, 1994	Ashwaubenon, WI
August 13, 1994	Madison, WI
August 17, 1994	West Allis, WI (MRAC)
August 20, 1994	Dubuque, IA
August 27, 1994	Wauwatosa, WI MRAC)
August 27, 1994	Rhinelander, WI
August 27, 1994	Tomahawk, WI
September 3, 1994	Racine, WI
September 10, 1994	Marshfield, WI
September 10, 1994	Madison, WI
September 10, 1994	Oak Creek, WI (MRAC)
September 11, 1994	Dubuque, IA (Hamfest)

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebneter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412½ Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	$12.00
2 years	(24 issues - save $2.00)	$22.00
3 years	(36 issues - save $4.00)	$32.00

Special club package reduced rates are available. For information, contact Ken Ebneter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebneter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebneter.

Swapfest information should be sent to Ken Ebneter. **Swapfest ads** should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

September 17, 1994 Milwaukee, WI (BE)
September 17, 1994 Appleton, WI
September 21, 1994 West Allis, WI (MRAC)
September 24, 1994 Wauwatosa, WI MRAC)
September 24, 1994 Tomahawak, WI
October 1, 1994 Racine, WI
October 1, 1994 River Falls, WI
October 8, 1994 Madison, WI
October 8, 1994 Oak Creek, WI (MRAC)
October 15, 1994 Milwaukee, WI (BE)
October 19, 1994 West Allis, WI (MRAC)
October 29, 1994 Wauwatosa, WI MRAC)
October 29, 1994 Marinette, WI
October 29, 1994 Tomahawk, WI
November 5, 1994 Menomonie, WI
November 5, 1994 Racine, WI
November 6, 1994 Kaukauna, WI (Hamfest)
November 12, 1994 Madison, WI
November 12, 1994 Oak Creek, WI (MRAC)
November 16, 1994 West Allis, WI (MRAC)
November 19, 1994 Milwaukee, WI (BE)
November 19, 1994 Dubuque, IA
November 26, 1994 Wauwatosa, WI MRAC)
December 3, 1994 Stevens Point, WI
December 3, 1994 River Falls, WI
December 3, 1994 Racine, WI
December 10, 1994 Marshfield, WI
December 10, 1994 Madison, WI
December 17, 1994 Milwaukee, WI (BE)
December 21 1994 West Allis, WI (MRAC)
Monthly, 1st Sat. Racine, WI (except January, July & August)
Monthly, 2nd Sat. Madison, WI
Monthly, 2nd Sat. Oak Creek, WI (SWAT/MRAC) (except June, July & August)
Monthly, 3rd Wed. West Allis, WI (MRAC)
Monthly, 3rd Sat. Loves Park, IL
Monthly, Last Sat. Wauwatosa, WI (MRAC) (except December)
Monthly, Last Sat. Tomahawk, WI (January thru October only)
Quarterly Marshfield, WI (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES
FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walkins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for $5.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)
OAK CREEK, WI (SWAT -MRAC/VEC)

SECOND SATURDAY DATES: 1:00 p.m. at Wauwatosa Savings and Loan Branch, 6560 S. 27th St., Oak Creek, WI. (MRAC/VEC fee $5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. at Park Manor, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 8:30 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is $5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 9:00 a.m. to Noon, at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available now will be FCC General Radio Telephone Commercial exams. Fees are $5.75 for the Amateur Radio exams and $35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for $5.75, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

ASHWAUBENON, WI (ARRL-VEC)
August 6, 1994

Held at the Ashwaubenon, High School. Registration 8:00 with testing at 9:00. For further information contact: Keith Summers, N9NOF (414) 336-6087, between 3:00 and 6:00 p.m.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC
MANITOWOC, WI (HAMFEST)
KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Northern Wisconsin RC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

RIVER FALLS, WI

Exams are held in the church basement, at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, (715) 425-2428.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater.Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St.,De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

OSHKOSH, WI

Winnebago County ARC, Oshkosh Armory, 1415 Armory Place. Registration at 8:00 a.m. with testing at 9:00 a.m. Contact AA9BA, (414) 685-5018 or KB9IME, (414) 233-7158.

KAUKAUNA, WI - SWAPFEST
MANITOWOC, WI, LAKESHORE HAMFEST
RACINE, WI - BIG BOY TOY SHOW
RHINELANDER, WI - NWARC SWAPFEST
STEVENS POINT, WI - CWRA SWAPFEST
WAUKESHA, WI - KMRA SWAPFEST
WAUKESHA, WI - MIDWINTER SWAPFEST
EAU CLAIRE, WI - ECARC HAMFEST
SOUTH MILWAUKEE, WI - SMARC HAMFEST
CEDARBURG, WI - ORC HAMFEST
ROCKFORD, IL - RARC HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB
DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on Aug, 20, Sep. 11 (see Hamfest below) and Nov, 19 in 1994.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, N0KAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

Contact: Arthur A. Evans, KA9KLZ, 213 N Jefferson St., Cuba City, WI 53807-1558, (608) 744-2704

DUBUQUE, IA - HAMFEST

There will be a VE test session in conjuntion with the Dubuque Hamfest on Sept. 11, 1994. Tests will be held at St. Peters Luthern Church on Asbury Rd., two blocks east of the hamfest site. Hours will be from 1 pm to 4 pm. Please bring two forms of id, two copies of licenses or csce's, and a check for $5.75 made out to ARRL VEC. No pre-registration necessary. For details contact: Carl Clark, N0KAX, 145 Delicia Dr., Dubuque, IA 52001. (319) 557-9149.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

(continued on page 15)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Wisconsin Nets Association picnic is September 17, noon, at Waupaca South Park, everyone is welcome.

Emergency Coordinators are needed for these counties: Ashland, Bayfield, Crawford, Door, Douglas, Florence, Forest, Grant, Green, Jackson, Kewaunee, LaFayette, Marquette, Menomonee, Oconto, Pepin, Polk, Richland, Rock, Rusk, Sheboygan and Vernon. Get in touch with our SEC, WB9SMM of Brookfield, for info and application.

Congratulations to W9YCV, editor of *Hamtrix*, the West Allis RAC newsletter. *Hamtrix* was awarded *superior* by the Amateur Radio News Service in a competition with 109 other newsletters. WARAC will provide communications for the Trinity Trot on September 5.

Would you like to be a Public Information Officer and improve public awareness of Amateur Radio in your area? Contact our Public Information Coordinator, K9ZZ, in Baraboo, for details and application.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94 (Rhinelander area)	2330	1830	NS9Q
RCRA	No	01/61 (Mondays CST) (Menomonie Area)	2330	1830	KA9OMC
Gr. Bay	No	72/12 (Green Bay Area)	0145	2045	WB9NRK
ARES	No	4.65/5.25 (South East/South Central Wisconsin)	0100	2000	
RACES	No	3993.5 (LSB Sunday)	1300	0800	WA9OAY

WB9RQR is considering early retirement.

New EC for Walworth County is N9VEV.

Exams: September 3 Racine, September 10 Madison, Marshfield and Oak Creek; September 17 Milwaukee and Appleton; September 21 West Allis; September 24 Wauwatosa and Tomahawk.

Thought of the month: *No experiment is ever a complete failure - it can always serve as a negative example.* □

Minutes of the June, 1994 WNA Ltd. meeting are in the Participating Clubs and Organizations section of this issue of Badger State Smoke Signals.

Federal Legislation Moves Forward

ARRL's House of Representatives Joint Resolution 199 passed a major hurdle when key provisions were included in H.R. 4522, the FCC Authorization Act of 1994, during markup by the Telecommunications Subcommittee of the House Energy and Commerce Committee on July 14. Sponsored by Rep. Mike Kreidler (D-WA), H.J. 199 earlier gained 245 other Congressional co-sponsors as a result of hard work by the Amateur community.

The next step is action by the full Energy Commerce Committee, and then consideration on the floor of the House. Companion legislation awaits action by the Senate Commerce Committee. If the Senate bill differs from the House bill, an additional conference committee decision might be necessary before floor action.

The bill urges the FCC to "continue and enhance the development of amateur radio as a public benefit by adopting rules and regulations encouraging the use of new technologies," and urges the Commission to make "reasonable accommodations for the effective operation of amateur radio from residences, private vehicles and public areas," and urges "all levels of government" to facilitate Amateur Radio as a public benefit.

The bill provides for a one time "vanity" call sign fee of 150 dollar(s). The previous "annual fee" provision was deleted in favor of a one time application charge, staving off the threat of an annual fee for all amateurs. In addition, ARRL lobbied to ensure that the fees go to FCC rather than the Treasury.

The one time fee was a calculated decision. As a result of concern on Capitol Hill about deficit reduction, new bills must be "scored" by the Congressional Budget Office to determine budgetary impact. A bill stands a better chance of passing if the Congressional Budget Office rules that it won't be an additional burden on taxpayers. ARRL supported the 150 dollar(s) amount since it would generate sufficient revenue to offset new costs to FCC and would meet the "revenue neutral" criterion, without imposing any new fees on amateurs who keep their present call signs or who receive new ones issued routinely.

- ARRL Bulletin ARLB063, 7/19/94

ARRL Board Meeting Highlights

The Board of Directors met in Rocky Hill, Connecticut, July 15, 1994. The following is a summary of the meeting's highlights:

The ARRL Spectrum Committee has been asked to study the bands between 420 MHz and 300 GHz to enable a better understanding of present and future activities in this region of the spectrum, giving priority to those bands subject to spectrum reallocations by the government.

The Board commissioned an RF Safety Committee to advise the Board and staff on safe operating

Please turn to page 8

Tower Restrictions

Continued from front page

Codifying into Wisconsin law the Federal Law PRB-1, which recognizes the need for Amateurs to have antennas, is another item under consideration.

First, Verne suggests that amateurs avoid antagonizing good neighbors, such as by having towers too close to lot lines or beam elements that rotate over the neighbor's swimming pool. "Get the whole picture, both sides," of a problem, says Verne.

Next, W9RYA is aware of the progress of situations in West Allis (through the West Allis RAC and W9YCV), Racine (see article in *BSSS* February, 1994, page 9 by Bob Jensen, WØWLN), and Mukwonago. Verne says, "It's helpful to work directly with a city Council member or through a state representative."

Finally, "We need to continue gathering information, and then have a meeting to do some planning."

If you would like to help Verne in this volunteer effort for Amateur Radio, such as a becoming a Local Government Liaison (LGL) or attending the special meeting, be sure to get in touch with SGL Verne Teske soon. □

FIELD DAY 1994

By Richard Regent, K9GDF
Section Manager, Wisconsin Section ARRL

Thanks to everyone who participated in ARRL Field Day, 1994. The following message originations reached me:

Group	Call	Location	Ops/ARES
Calumet ARES	KN9P	Near Chilton	8/8
Falls ARC	K9RHH	Homestead Hollow Park Germantown	12/6
Four Lakes ARC	W9JZ	Middleton	30/5
Fox Valley ARC	W9ZL	Town of Greenville Outagamie Co. ?	
Mississippi Valley ARA	WC0V	Co Hwy F, La Crosse	14/2
Northwoods ARC	N9PFN	Pine Lake Fire Dept. Station	9/4
Washington Co. ARC	KB9UE	St. Lawrence	12/6
West Allis RAC	W9FK	Crystal Ridge Ski Hill, Franklin	1/1
Wisconsin Rapids ARC	W9DQA	M State Tech College	15/12
WK ARC	N9AW	Legion Park Oak Creek	11/7

Of course, there is no guarantee that messages sent to me will actually reach me, but if you sent them properly by packet radio, through the NTS or other means, you should get credit. What *is* important was to practice message handling and to prepare for emergency communications.

Here are some Field Day stories about various Wisconsin clubs:

The Watertown ARC had stormy weather during the night, the first time Watertown participants remember operations being interrupted by rain and lightning. Antennas had to be disconnected for three

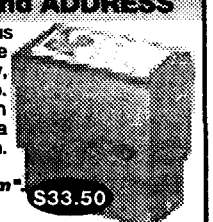
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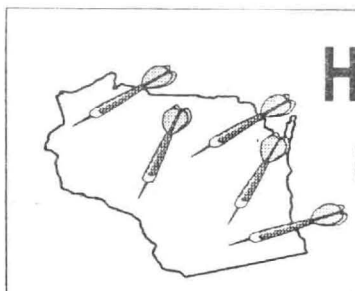
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Look at That License

Amateurs receiving new or modified FCC licenses after June 8, 1994, should carefully note their expiration date. Only new, first licenses or specific renewals have a full 10-year term. Amateur license upgrades, changes of address, call sign, or name, are processed with the original expiration date intact. That is, they are not automatically extended for 10 years.

The FCC, using new computer software recently installed, is processing amateur licenses in this manner to conform with to the way in which it processes all other Private Radio Service licenses.

The FCC currently recommends that amateurs submit license renewal applications 60 to 90 days before their expiration date. The Commission said it intends eventually to mail license expiration notices to amateurs.

In the meantime, the ARRL is sending license expiration notices to ARRL members, along with an FCC Form 610 and a return envelope to the FCC's licensing division in Gettysburg, Pennsylvania.

- ARLB056, 7/1/94

Weather Eye ATV

Rib Mountain Radio Amateurs have a remote-controlled Amateur Television (ATV) camera system installed in a high location and use it mostly for weather spotting. If you're in the area, check out the picture. The visual carrier frequency output is 421.25 MHz.

- Richard Regent, K9GDF

We Can Hear Each Other

WA9PWP, Paul of Madison has worked QRP stations in all states and is eagerly waiting for QSLs from North and South Dakota. QRP stations use transmitters with 5 watts or less, WA9PWP uses a Ten Tec Argosy II to achieve his personal goal of two-way QRP Worked All States (WAS). Although the ARRL does not yet endorse WAS certificates for such "2XQRP", Paul says it's the fun and challenge of making contacts with low power that has him interested. He notes that QRP contests are an easy way to quickly recognize which stations are also running low power.

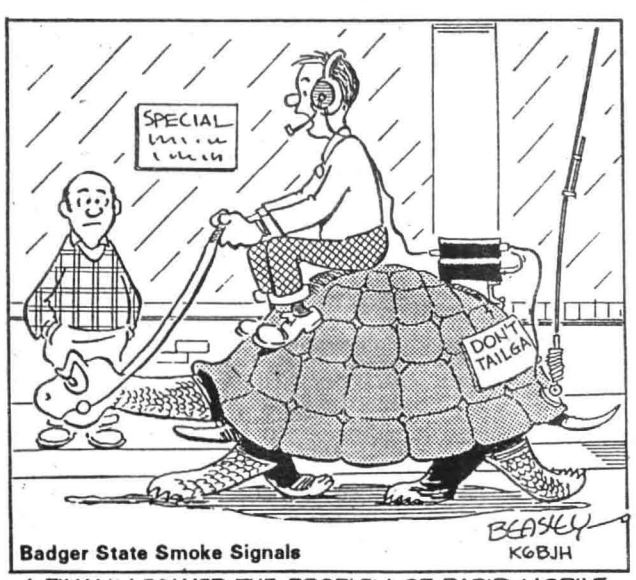
WA9PWP first received his WAS certificate about 15 years ago and earned the CW endorsement sticker last year.

- Richard Regent, K9GDF

And Now for RTTY DXCC

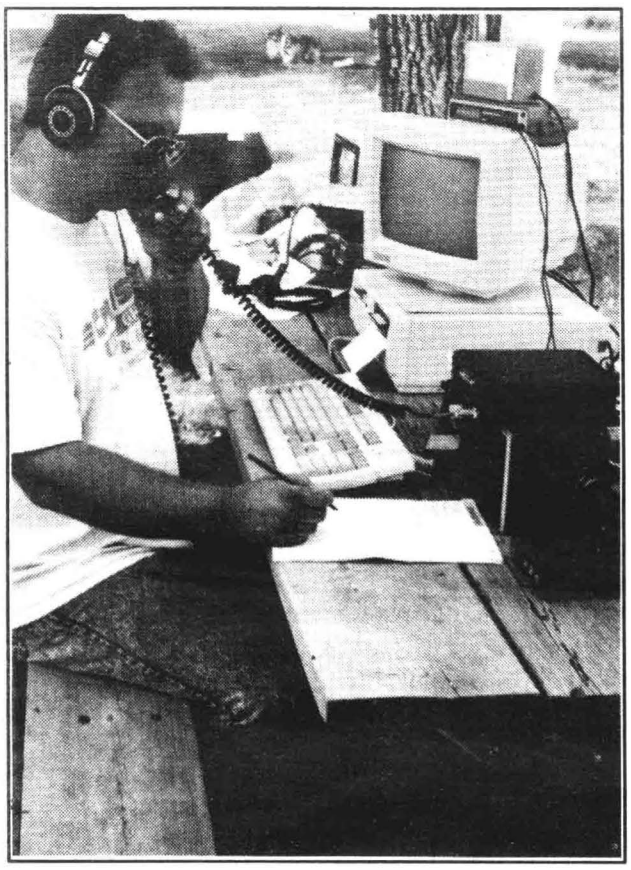
WB9NOV, Frank of Madison, was first licensed in 1973 as a Novice for two years, and then got the DX bug. He now has the Advanced class license and a lapel pin which is engraved "ARRL DXCC #1 Honor Roll." Frank says he has worked all countries. So to add variety and a new challenge he is trying to talk to amateurs in 100 countries by using only the radio teletype (RTTY) mode. At least he has some hard copy or floppy disk storage to recall the QSOs. Good luck, Frank!

- Richard Regent, K9GDF



I FINALLY SOLVED THE PROBLEM OF RAPID MOBILE FLUTTER ON 2 METERS!

Before the Rains Came: Field Day 1994



Steve Schulze, N9UDO, racks up contacts on 2 meters at Owen Park in Columbia County during Field Day 1994. The Yellow Thunder Amateur Radio Club's operating site for 25 years is between Baraboo and Portage, and is a hilltop location, great for VHF. It is *not* the place to be during thunderstorms, several of which put a "damper" on the club's efforts. Steve is the SysOp of the RF Deck landline BBS in Baraboo, and has a special file area on the board for uploads to *BSSS*. Clubs and other writers are encourged to send material to his board to save time and, often, retyping material. His BBS number is (608) 356-4777. Field Day photos from a number of clubs will be published in September, 1994 *Badger State Smoke Signals.*

Wisconsin Amateur Wins Scholarship

The ARRL Foundation Scholarship Committee has announced recipients of its 1994 academic scholarship awards. Amy L. Tlachac, N9TLN, of Wisconsin Rapids, was given the $1000 K2TEO Martin J. Green, Sr. Memorial Scholarship.

The Edmond A. Metzger (W9PRN) Scholarship was awarded to Eric N. Johnson, N9TAR, Danville, IL. (W9PRN is the Central Division ARRL Director - BSSS ed.).

- Condensed from ARRL Bulletin ARLB058, 7/6/94

Short Report: Circus Train HF Special Event Station

The Great Circus Train left Baraboo July 11, went to Portage, and continued to Milwaukee July 12. On board was an HF special event station, operating on 20 and 40 meters. The operation was a learning experience, since it was the first attempt at HF work from the train in 28 years. We learned, all right! The special event station on the train worked about 30 stations, including a couple on 2 meters with an HT sitting on a window sill for intercom with the rest of the ARES crew in the next rail coach. The low contact total was probably due mostly to the antenna configuration; it was too low, putting the maximum radiated signal very close to a mass of metal of objects. On day two, the rig developed problems on 20 meters, but not until after we worked a mobile in Hawaii and a number of others on 20. 40 meters wasn't very useful at all. We'll carry a full story in the September issue of *Badger State Smoke Signals.*

- Jim Romelfanger, K9ZZ

Editor's Bakeoff: A Piece of Cake for W9YCV

The Amateur Radio News Service, ARNS, has what I would call their annual editor's bakeoff where ARNS judges taste club newsletters for the sweetest flavors of writing skill and reader impact. About 60 Amateur Radio newsletter editors in the U.S. compete by submitting newsletters representing their best work. The judges do have the difficult task of sorting newsletters into three categories: good, excellent and superior. They sort them out by giving points for: attractiveness, variety, usefulness of a learning tool, information on club activities, technical or operating articles, puzzles, humor, correct spelling and grammar, consistent and good appearance, ideas that encourage club member involvement in writing and for cartoons.

Les Peterson, W9YCV of Greenfield, was awarded the "excellent" rating for his editor work for both of the past two years. But this year he achieved "superior." Les is proud to get 199 out of 200 points, only missing a dubious point on grammar or spelling (proving that nobody is perfect!). Les has been editor of the monthly WARAC newsletter *Hamtrix* since 1991. There are about 70 West Allis RAC members and they all enjoy reading their award winning *Hamtrix*.

The judges particularly like articles from club members. Les lists specific club members in each issue and assigns them to contribute for the next issue. There is also a calendar page which gives the months club radio events.

Les says, "It's been a challenge to use my computer, learning how to do more things on it. Now I have a project to work on with a little different process, putting the WARAC *Hamtrix* together." His wife Grace does help with proofreading. You'd think Les had always been writing newsletters but he insists, "No, I never did a newsletter, before this one." Maybe you can help your club newsletter editor, and if your club doesn't have a newsletter this may be your chance to start one. You don't need any experience, according to Les.

- Richard Regent, K9GDF

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August 1994

LF and Down

By Dave Spearing, KB9CSW
910 Prospect, Portage, WI 53901-1935

For about the past fifteen years or so, I have been involved in low-frequency (LF) radio, mostly as a listener and experimenter. I was delighted when Jim, K9ZZ, asked me to write an article on the subject for the *Smoke Signals*.

Perhaps the best place to start is with a brief look at the spectrum below 500 kHz. There really *are* things happening down there!

500 kHz down to about 200 kHz is generally called the LF band. The band labels which I use in this article may not agree with other articles you have read, since the divisions are at best a bit vague. In this band one finds beacons, mostly used for air and marine navigation. In Europe, there is a broadcast band, and some Lowfers (the name used to describe low frequency enthusiasts) on the east coast occasionally report hearing some of these stations.

From about 200 kHz down to about 50 kHz is the VLF band in which the 1750 meter "Experimenters Band" resides. The FCC set aside the 160 KHz to 190 kHz segment of this band for unlicensed low power experimentation. One may transmit 1 watt on an antenna which is no longer then 15 meters. This is a shared band with the military. This band is *not* an Amateur Radio band, but many who ply it are hams. Other major frequencies of interest in this portion of the spectrum are 100 kHz, LORAN, and 60 kHz, WWVB, both of which make very good frequency standards.

There was a series of articles beginning in January of this year in *73* which dealt with using WWVB as a frequency standard. There are also other time standard stations in this frequency range.

The ULF and/or ELF band begins at about 50 kHz and goes down to some point as yet undetermined. This is the realm of whistler hunters, NASA, a few frequency standard stations, cave radios, project Sanguine - Seafarer, and a few experimenter beacons. Whistler hunters listen to and study the changes in sound produced by lightning as it echoes back and forth between the North and South hemispheres. On a recent space shuttle trip, NASA experimented with a virtual ULF antenna with which whistler hunters cooperated. Since low frequency radio will penetrate rock and salt water, some spelunkers have taken radios into caves to communicate with the surface, and of course there is Project Sanguine - Seafarer at Clam Lake, Wisconsin, which operates at about 70 Hz. The authority of the FCC to regulate RF emissions ends at 900 Hz, which means that there is another area for experimenting below this frequency, and some do experiment, mostly around 800 Hz.

Over the years, a few articles about low frequency radio have appeared in the ham magazines, one of which I have already mentioned. Another article of real interest appeared in the April, 1994 issue of *QST*, page 26ff. titled "Build your Own Lowfer Transceiver." As a quick critique of the article, I would say that it looks good to me, particularly because I am working on a receiver which is similar to the receiver portion of the transceiver. This is a good article to read even if you are not particularly interested in the 1750 meter band. A book which I would recommend is one of Ken Cornell W2IMB's "Scrapbooks". I do not know if he has one in print at this time but you may wish to write to him and find out (be sure you send an SASE).

The Longwave Club of America is one of the major clubs and its organ is the *Lowdown*, which is a monthly newsletter containing: articles, loggings, projects to build, and perhaps an advertisement or two. Membership and the newsletter are $18/yr. You may wish to send your check and membership request to: Bill Oliver, 45 Wildflower Road, Levittown Pennsylvania 19057.

I would be happy to talk with anyone on this subject. At this time I do not have a packet station up, and my address in the call book is wrong due to a recent move. My address is correct in the byline at the beginning of this article. □

Was That A Telephant or an Elephone?

By Richard Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

The birds are chirping and it's a lovely day. Just then the phone rings. My friend Jeannine and I are sitting outside at a metal patio table eating crunchy caramel cake and drinking soda. "Wasn't that your telephone," I ask? "No, that's Digger," Jeannine replies, not looking up from enjoying another mouthful of cake.

Then, through the open screen window, I hear sounds of someone removing the telephone handset from the wall-phone cradle and saying in a calm voice, "Hello.... Oh...., yes." Next there's a jumble of words that build a pleasant telephone conversation. Finally the sound of the telephone being hung up.

My attention focuses back to Jeannine's voice. "Digger is my Congo African Gray parrot in the kitchen. He's a talker who will probably try to charm you into letting him out of his cage. But don't do it. He's cute, but he will bite." Gosh, a clever parrot named Digger who mimics telephone conversations from the bell ring to the final hang-up click!

The truth is quickly proven when the telephone rings again. But this time we can hear a phone ringer upstairs along with the kitchen phone. Jeannine stands up, "That *is* the telephone, I'll be right back." I finish my cake and soda and think about the parrot phone. "Come in and meet Digger," Jeannine shouts from the kitchen.

In a corner by a window is a huge black wrought-iron cage. It's five feet tall with a two-foot square base. There inside, perched on a stick is Digger, a gray parrot, about a foot in length from his sharp beak to his red tail feathers. His tiny black eyes, one on each side of his narrow head, are circled in light yellow. Digger's feet have four toes each, with sharp nails. He gives me a tilted head stare, while waving his foot at me.

So this is the bird that sounds like a telephone! What is he thinking about?

Will he repeat whatever I say? In a low voice I methodically coax him, "Hello Digger, hello Digger." There is no reply. Unconvinced, I look away. The drip coffee maker on a small cart next to Digger's cage seems to make a loud gurgle, as if it has finished its brew. "That was Digger," Jeannine chuckles, "He also imitates the microwave, smoke alarm and oven timer!"

I quickly look back at Digger, who is silent. We stare at each other for a long time without a word. Imagine, a bird who can make the sounds of electrical devices. Can he receive my thoughts? Maybe he is smarter than me, fascinating!

Aha, there attached to the side of the cage is the secret energy of his sound imitations, special parrot food. It's obvious that this parrot doesn't want a cracker. He eats nuts, popcorn, seeds, grapes, orange and apple slices, carrot rings and broccoli chunks. Jeannine asserts, "Digger insists on having shredded cheese, its his favorite. But it's got to be on top of his fresh food cup or he'll dig for the cheese and make a mess." Is there something magical in real Wisconsin cheese?

It's time to go now. "Goodbye, Digger, keep in touch," I remark.

Several days later, at home, I am more aware of electronic sounds around the house; listening with a sharper ear. Oops, I've got to answer the phone. "Hello, oh, yes." Digger would be proud of me. Hey, wait a minute, "Is this you, Digger?!" □

FIELD DAY 1994

Continued from page 4

hours during the storm, meanwhile operators huddled in their cars.

The South Milwaukee ARC FD team gathered in Froemming Park, southwest of Milwaukee, to find out that the park had been sold to a private owner, who didn't know anything about the club's applying for a permit. There was already another group that had reserved the spot, with a picnic in progress. So SMARC members were disappointed they didn't get a chance to operate or get wet this Field Day.

Ozaukee RC and OZARES folks were at the Lazy Days Campground for Field Day. The ground was soft from the previous week's rain, making staking easy to put up tents and secure antennas. All went smoothly, not even a cut finger. They only had one strong rain shower at about 2:00 a.m.

The Milwaukee RAC assembled screen tents near Cedarburg in the Pioneer Village, but soon everyone had to take shelter on the porch of the Depot during a big rain downpour: Isn't Field Day fun?

The West Allis RAC withstood the storm without any damage.

Hope you saw a rainbow, learned a little more about communications, or enjoyed being with club members this Field Day, even if this year was a bit windy and wet. □

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WANTED: Older six-meter rig. CHEAP! Also want cheap TNC. Rick Plouffe, N9ROY, N656 Meadowpoint Road, Wisconsin Dells, WI 53965. (608) 254-8256. □

Submarine Special Event Station

To commemorate the building of submarines during World War II in Manitowoc, the ManCoRad Radio Club will operate a special event station from the WW II submarine U.S.S. Cobia. Frequencies: 14.250 (plus or minus QRM), 7.250 (plus or minus QRM), and 28.4 if conditions are good, also plus or minus QRM. Operation will be August 27, 1994, from 1400Z to 2200Z. QSL via W9DK, P.O. Box 204, Manitowoc, WI 54221-0204.

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The Near Space Sciences (NSS) June 18 Balloon-Carried Amateur Radio (BCAR) Flight

Package Gets Slow Rise, Very Rapid Descent

By Don Evenson, K9JYX
401 11th Street, Baraboo, WI 53913

THREE CASTLES AIRPARK - HILLSBORO - I arrived at the airfield, which looked to be a private strip in someone's back yard, in time to see Joe Mayenschein, WB9SBD, take a styrofoam package that was painted fluorescent red out of his vehicle and set it on the ground.

Inside this innocuous-looking container was a 35mm still camera that would take an exposure every ten minutes, a camcorder aimed horizontally at a rotatable mirror mounted on the outside of the package to view the ground, plus all of the electronics.

Tim Tomcjanovich, K9SB, Elgin, IL, supplied the ATV portion of the package, including the camcorder, which performed flawlessly all the way to the burst point of 86,395 feet in altitude. Many stations from several states reported receiving video from the package.

Dave Chesser, KA9NHL, DeKalb, IL, designed and installed the Global Positioning system. Using an Apple computer with a mapping program obtained from the Coast and Geodetic Survey, he was able to track the balloon via latitude and longitude and plot the track on the computer. He then could print out a hard copy of the balloon track. It also transmitted altitude and ground speed data, which was available on packet.

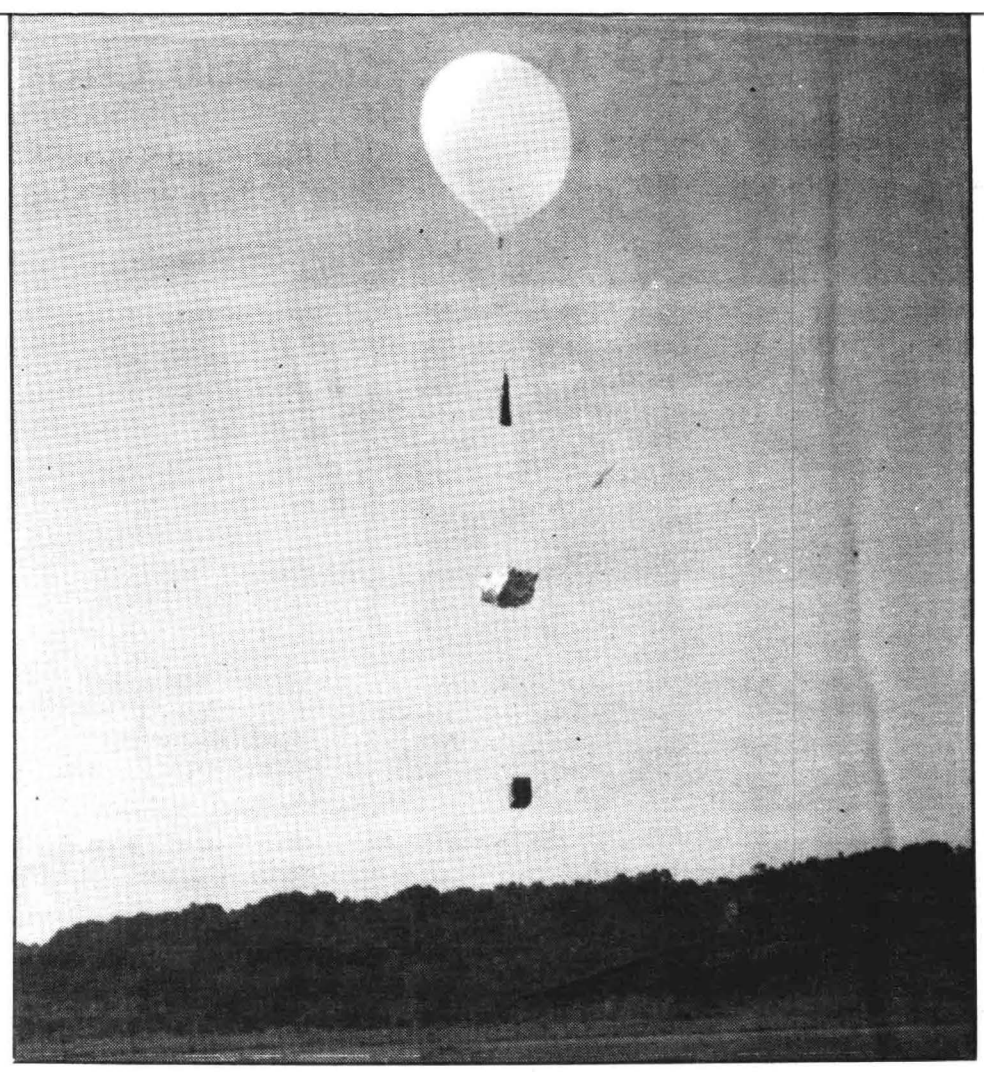
Linda, KA9WDG, Dave's XYL, manned the computer on the ground, while Dave and I chased the balloon via automobile, using a laptop computer hooked up to a modem through his mobile rig.

The chase went fine until the alternator in Dave's car decided to pull a "Murphy" and quit charging. We discovered that at eight volts of battery, the electronic dashboard goes dark. We ended up at a truck stop on the interstate and highway 80 outside New Lisbon to charge the battery so we could get back to the airstrip.

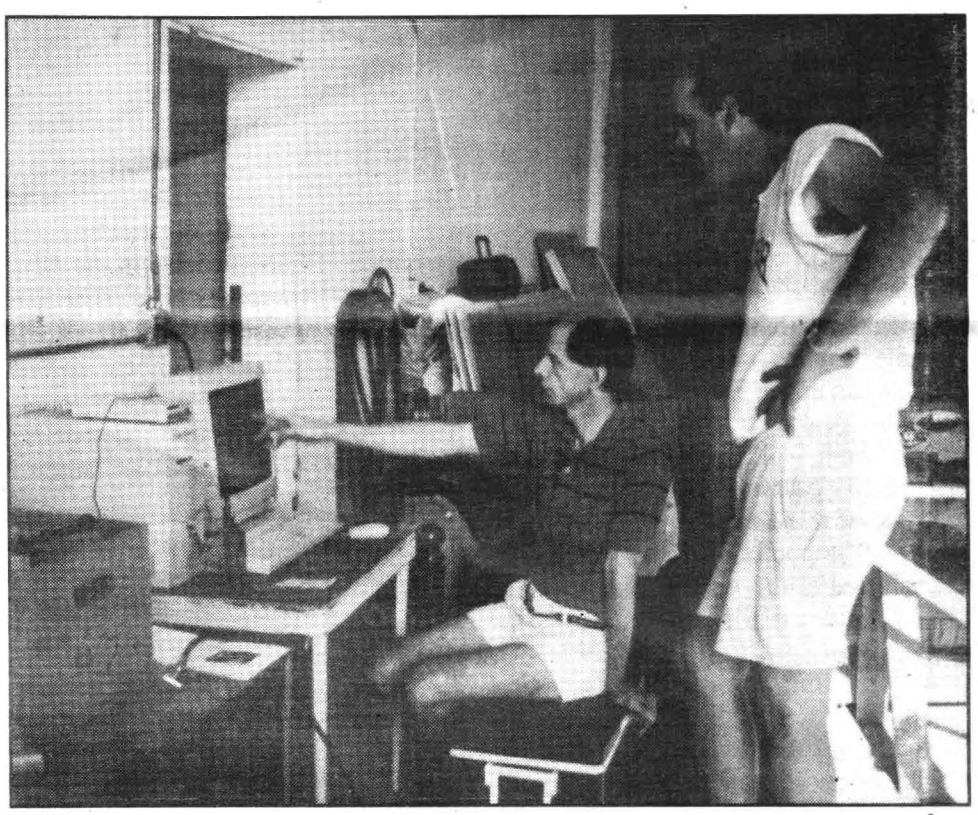
While getting the battery charged, we heard the report that the balloon had burst and was tracked in its fall to northeast of Elroy.

Unfortunately, the parachute did not deploy and the package crashed. It was found a few days later but so far there has been no report as to how much damage was done.

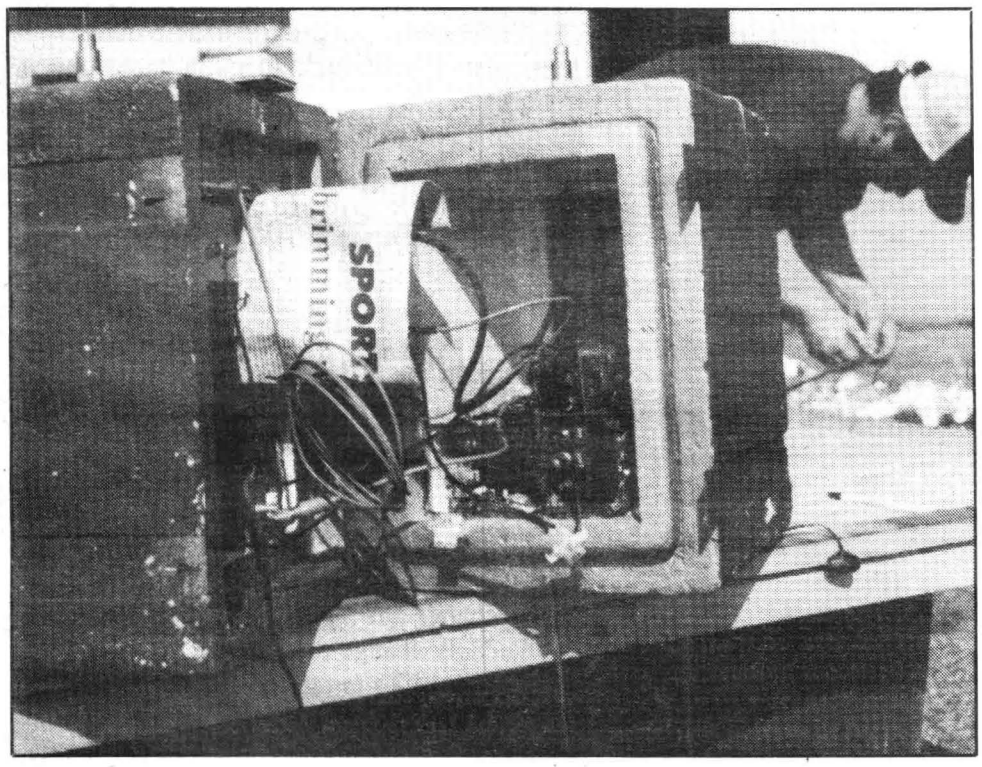
The entire flight lasted about two and a half hours and the package's landing point basically tracked to the northeast to circle over the southwest corner of Castle Rock Lake in the vicinity of Castle Rock Park. □



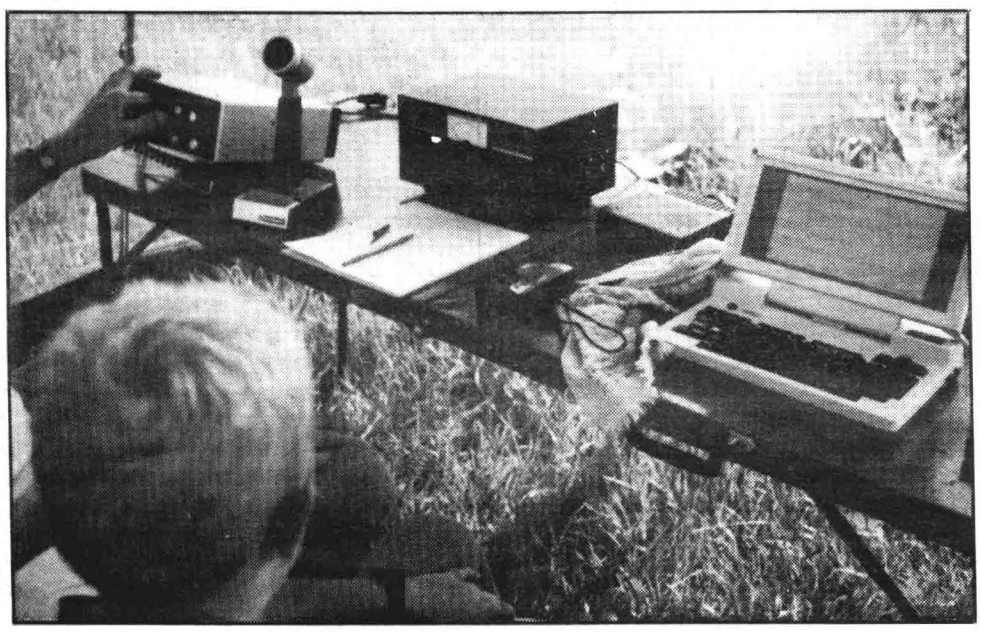
As the Balloon ascends, directly below it is the parachute, then the radar reflector, and hanging below that is the package. The 10 meter radials are not visible. The radials also had to be shortened to lighten the load as the hydrogen tanks were not as full as they should have been. (Murphy at work?)



Dave, KA9NHL, explains the GPS tracking system to Stu, WB9UNX.



Joe, WB9SBD, attaches one of the radials for the ten meter beacon. Note the high-tech packaging. Wrapped in the latest news is the GPS built by KA9NHL. Some of the two meter crossband repeater can also be seen.





At lower left is the HF special event station. The packet station is showing the balloon coordinates and altitude. Above: OUCH! Yup, the alternator done died. Dave, KA9NHL checks out his dead alternator in Lyndon Station.

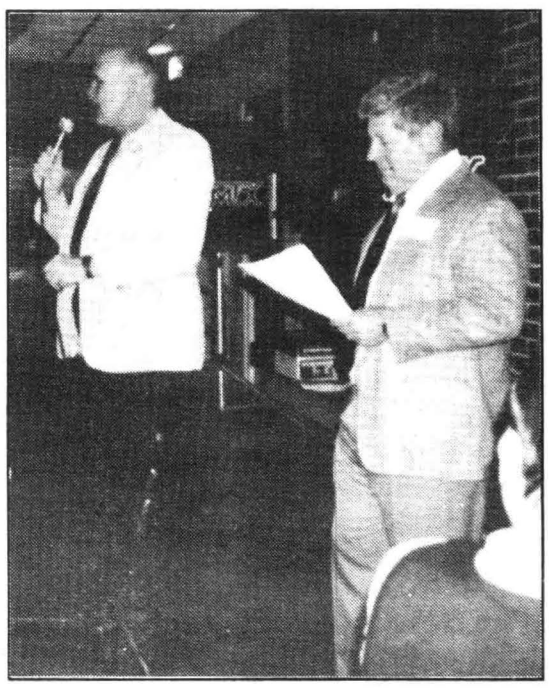
- Photos by Don Evenson/K9JYX

Racine Megacycle Club Chooses WB9USI as Ham of the Year



The Racine Megacycle Club held its annual ham dinner in February. In the photo at left are Dan Miller, KA9OIL; Cheryl Miller, WS9P; Bill Komistra, W9OVZ; and the Racine Ham Of the Year, Dave Voss, WB9USI, holding the travelling plaque. In the photo at right are Rev. Jim McChesney, WAØPFV, and Larry McCalvy, WA9JMO. Larry was Master of Ceremonies for the evening.

Story and Photos by Arne Moxness/KA9ZPY



ARRL Board Meeting

Continued from page 4

practices for the development of policy and educational methods and materials. Members to be selected by the President.

The ARRL Professional Media Award was created to recognize media professionals who make distinguished contributions to the public image of Amateur Radio.

In recognition of more than ten years of successful SAREX missions aboard space shuttle flights, the Board expressed its gratitude to the SAREX Working Group. The Board commended the group for its efforts to make Amateur Radio communications a part of future space missions, including the Space Station.

Jonathan M. LeBretton, N1MJM, of Plymouth, Massachusetts, was selected as the 1993 Hiram Percy Maxim Memorial Award winner.

James Dalley, WØNAP, of Centerville, Utah, was selected as the Herb S. Brier Volunteer Instructor of the Year.

The Board picked Sheila Perry, NØUOP, of Bloomfield, Missouri, as the 1993 Professional Educator of the Year.

Rick Campbell, KK7B, of Chassell, Michigan, was selected at the winner of the Technical Excellence Award for his article, "High-Performance, Single-Signal, Direct-Conversion Receivers," appearing in the January 1993 issue of *QST*.

The Board tabbed Len Winkler, KB7LPW, of Phoenix, Arizona, as the recipient of the Philip J. McGan Silver Antenna Award, which recognizes outstanding achievement in the public relations arena. The Board thanked all Amateurs for their public relations efforts.

The staff was commended for developing and implementing strategies for responding to the 13-cm band challenges posed by the government reallocation plans.

The Board noted the selection of ARRL Technical Relations Manager Paul Rinaldo, W4RI as a member of the US delegation to ITU Plenipotentiary Conference, and congratulated him for his excellent service as an international representative of Amateur Radio.

The Contest Advisory Committee will study the possibility of expanding the scope of the 10 GHz contest to include all bands above 10 GHz, and report back to the Board at its 1995 Annual Meeting.

The Contest Advisory Committee will study the possibility of adding a club competition to all VHF/UHF contests and sprints. The committee will also consider establishing a Summer Sprint series.

The Board selected Peoria, Illinois, as the site of the 1996 National Convention. The convention will be held September 13-15 under the sponsorship of the Peoria Area Amateur Radio Club.

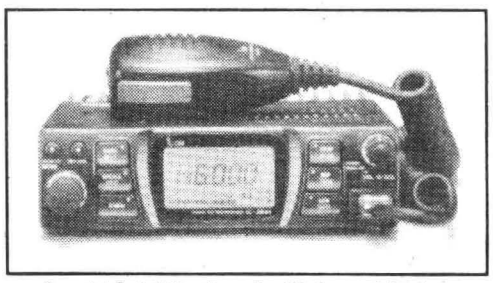
Dallas/Ft. Worth was selected at the site of the 14th ARRL Digital Conference to be co-sponsored by the Tucson Amateur Packet Radio Corporation (TAPR) and the Texas Packet Radio Society in September 1995.

The full story of the Board meeting will appear in September *QST*.

- ARLB062, 7/18/94

New Products

ICOM IC-281H TWO-METER MOBILE



Icom introduces the IC-281H two-meter mobile with receive capability on the 440 MHz band. Using this bonus receive band, enjoy full duplex crossband operation between the 2-meter and 70cm bands.

Automatically store your previous 10 transmit frequencies in the 10 "scratch pad" memories (five simplex and five duplex). This allows you to instantly recall recent operating information. A memory allocation function allows you to store up to 60 memory channels that can be divided between the main and bonus receive band. Transmitted frequencies are automatically entered into "scratch pad" memories for easy recall.

Automatic memory channel advance enables you to choose the have the memory channel indication automatically increment itself after a memory channel is programmed. This speeds up the programming process.

A TNC can be connected directly to the modulation circuit via the {DATA} jack. Data speeds up to 9,600 bps can be used with no modifications. In addition, a newly designed modulation circuit prevents overmodulation, even during high data throughput. A one-piece die-cast aluminum frame with a large heat sink provides increased stability for high duty cycle operation, such as packet.

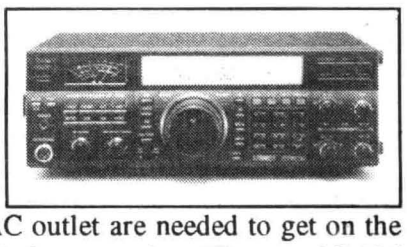
Full access to all of the IC-281H's functions is available from the supplied DTMF microphone. The IC-281H also has one-push action switches (no {FUNC} switch) to simplify and speed up function access, a SET mode to customize operation, and built-in pager and code squelch functions. A time-out timer function prevents accidental continuous transmission when using the one-touch PTT function. Additional features include three pairs of programmable scan edges, auto dialing capability for autopatching, and a large, easy-to-read function display.

Optional features include a UT-66 voice synthesizer and UT-85 tone squelch unit which provides pocket beep and tone squelch, as well as optional tone scan to assist you in accessing a repeater when you don't know the subaudible tone (UT-85 required).

The suggested retail price for the IC-281H is $462.00. For more information, please contact your local Icom dealer, or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.

- Icom news release

ICOM INTRODUCES IC-736 DXER'S DREAM HF WITH SIX METERS



Work all the HF bands AND six meters with Icom's new IC-736 transceiver. Only an antenna, coax cable, and AC outlet are needed to get on the air - true plug and play operation. The new IC-736 utilizes cutting-edge technology, DDS IC (Icom pioneered the original), and a PA circuit that employs MOS FETs for a clean 100 watts of output power. Easy to use? You bet.. operating details such as memo pads, pre-programmable quick split function, and a split lock function make this a DXer's dream.

All nine hams bands, transmit and receive, are included in the IC-736. Plus, there's a 500 kHz to 29.995 MHz general coverage receiver and 50 MHz band for local QSOs and VHF DXing. SSB, CW, AM, and FM modes are built in.

A built-in automatic antenna tuner has preset memories for each 100 kHz step, providing high-speed tuning on the HF and six-meter bands. The tuner automatically turns ON at poor SWR levels (HF bands only).

The IC-736 is equipped with two antenna connectors, directed by an automatic antenna selector. The memory channels for each band memorize the selected antenna, antenna one or two. When you change the operating band, you don't have to manually change the antenna.

Power MOS-FETs in the driver and final amplifier provide a clean 100 watts of output power on all the ham bands and 50 MHz. Two large cooling fans and an aluminum die-cast frame help stabilize the PA circuit to provide a full 100 percent duty cycle.

CW enthusiasts will cherish the full break-in function (QSK) to receive signals between transmitted keying pulses (semi-breakin is also available). Two CW key jacks allow you to connect both a memory keyer and a paddle - great for contesting!

Continued on page 9

TNT The No-Tune Multiband Antenna
complete, assembled, ready to use
TNT is the modern coax-fed version of the classic Windom. TNT is No-Tune on 80 cw, 40, 20, 17, 12, 10. TNT/2 is No-tune on 40, 20, 10. Work other bands w/ tuner. DX &Gain rise w/ frequency.
Ready to Use Now! Includes Custom Isolation Balun and 99 ft. RG-8x feedline.
Kink-Proof Wx-Sealed Low Noise
No Traps or Resistors Insulated to 3000 V Rated 500 Watts
TNT Windom 135 ft. long $89.95 -$6 P&H
TNT/2 Windom 67 ft. long $79.95 -$7 P&H
Tech Support 801-373-8425 for info send $1
AntennasWest Box 50062-SS, Provo, UT 84605
Order Hotline 800-926-7373
Custom 2KW TNTs--add $70
The TNT secret? Feed a resonant antenna off center at a constant impedance point. Tame it with a feedline isolation balun. Result? DX, broad low SWRs, and easy multi-band No-Tune operating.

RHYME SUPPLY CO. INCORPORATED
122 EAST COOK STREET PORTAGE, WIS.
COMPLETE LINE OF OFFICE MACHINES - FURNITURE - COMPUTERS
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1-800-362-4333
FAX 608-742-7517
KEN HUTLER

New Products

Continued from page 8

The Double Band Stacking Register (DBSR) memorizes two frequencies and the mode in each band so you can use it like two VFOs in one band. Simply push the band key to recall the last-used frequency and mode. Push the band key again to call up another frequency and mode in the same band.

Up to 10 electronic memo pads are available to temporarily store the frequency and mode by pushing the memo pad write switch for contesting. You can then continue to bandswitch. Recall the memo pad by pushing the memo pad read switch until the desired frequency appears, and move the information to one of the 110 memory channels (includes 10 split memories and two scan edges), if desired.

The IC-736 has passband tuning (PBT) and a notch filter to reduce interference, RF gain and a 10dB attenuator prevent interference, while a noise blanker function reduces pulse-type noise such as from a car ignition. An all-mode squelch system further enhances the signal.

An improved quick-split function allows the offset frequency to be programmed in advance. Then you can push the SPLIT button for one second to select all the necessary settings for split frequency operation - great for competition use. A split lock function prevents you from accidentally changing the receive frequency while changing the transmit frequency, and a dial lock function electronically locks the main dial.

The IC-736 incorporates a newly designed Direct Digital Synthesizer (DDS) IC to provide precise frequency resolution to 1 Hz. One complete dial rotation is equal to 200 Hz.

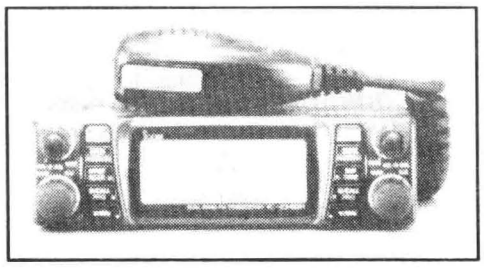
Other outstanding features include a set mode for adjusting infrequently changed values or conditions, a VOX function for convenient phone operation, fast/slow selectable AGC time constant, multiple metering (power, SWR, and ALC during transmit; S-meter during receive) and a keypad for direct frequency input. The IC-736 comes with an HM-36 hand microphone, and the transceiver is compatible with Icom's CI-V system for control from a personal computer.

Options include CW narrow filters for the 2nd and/or 3rd IFs, a CR-282 high-stability crystal unit for improved frequency stability, and a UT-30 programmable tone encoder unit to access a repeater which requires a subaudible tone.

The suggested retail price for the IC-736 is $2,250.00. For further information, please contact your local Icom Amateur Radio dealer, or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.

- Icom news release

ICOM INTRODUCES IC-2340H DUAL-BAND MOBILE



Icom introduces the IC-2340H dual-band mobile, featuring independent controls and switches for each band.

The VHF (144 to 148 MHz) and UHF (440 to 450 MHz) bands have their own main tuning dial, VFO/MHz and Memory/Call buttons, as well as Volume/Squelch control. Independent control of each band provides you with safe mobile operation while driving. For further ease of operation and safety, the IC-2340H has four selectable backlighting levels for varying lighting conditions.

Each band has 50 memory channels, plus two "scratch pad" memories, one call channel and two scan edges, providing a total of 110 memories. Store the frequency, offset direction, offset frequency, tone squelch (with optional UT-89 tone squelch unit), ON/OFF and tone frequency in each memory channel.

Aluminum die-cast construction with an efficient cooling fan on the 45-watt IC-2340H (35 watts UHF) provides stable output power and performance you can count on.

With Icom's optional UT-55 DTMF encoder/decoder unit, you can control most of the IC-2340's functions from other transceivers that have a DTMF keypad. A three-character security password can be input to restrict access. Other optional features include a UT-66 voice synthesizer, pager, and code squelch functions for selective calling and pocket beep functions for quiet standby.

Additional features include optional tone scan which identifies the subaudible tone, if unknown, to access a repeater (UT-89 required) and an auto repeater function which displays the repeater settings automatically when operating within the repeater frequency range.

The IC-2340H also has an auto-power off function that turns the transceiver off to conserve your vehicle's battery and one-push action switches (no {FUNC} switch) to simplify and speed up function access, as well as a SET mode to customize operation. A time-out timer function prevents accidental continuous transmission when using the one-touch PTT function.

The suggested retail price for the IC-2340H is $799.00. For further information, please contact your local Icom Amateur Radio dealer, or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.

- Icom news release

Personal Greeting

No goofy picture this year, dear sis; they don't look so nifty. But we'll do more next year, my dear, when your years add up to fifty!

Happy birthday, Mary, from your brother, Jim, K9ZZ!

Sending Files to BSSS by Modem

By Steve Schulze, N9UDO

1. PLEASE use a terminal program that uses ZMODEM file transfer protocol. This protocol supports batch uploads and downloads similar to YMODEM. ZMODEM also has built in crash recovery. We have found in the past that ZMODEM works the best with our system. So, if at all possible, please use ZMODEM, with YMODEM as the alternate. If you need a terminal program that supports ZMODEM, the latest version of ProComm Plus has it. Also, there are some shareware programs available such as Telix, QModem or RIPTERM. We have Telix and RIPTERM available for download here at The RF Deck.

2. Set up your terminal program so that it will communicate at the highest baud rate for your modem with NO PARITY, 8 DATA BITS and 1 STOP BIT. (i.e. 2400 N-8-1) The RF Deck can make connections up to 14,400 baud.

3. Call The RF Deck at (608) 356-4777 with your modem, logon to the system, follow the prompts until you get to the Main Menu. From the Main Menu press F for the <F>ile Menu. Now, here at the File Menu, press C to <C>hange File Area. Now you will get a listing of the available file areas. NOTE: You are looking for #34-BSSS Upload Area. When you get to the end of the list, you will be prompted: ENTER NEW FILE AREA. Enter 34. Now you're back at the File Menu. NOTE: Just under the File Menu it should read: Current File Area: BSSS-Upload Area. If it doesn't read that, then you didn't change to the correct file area.

4. Press U to <U>pload File. You will be prompted to enter the name of the file you are going to upload. Type in the file name and press enter. It will ask you for a description of the file. YOU NEED TO DO THIS so Jim (K9ZZ) knows whose file is whose. Your description should include the name of the organization and the month of the issue you are uploading for. After typing in the description, you will be asked for another filename. If you are only going to upload one file then press enter. After you press enter, this is the time that you tell YOUR terminal program to UPLOAD the files you want. □

You are strongly encouraged to send club text material, columns, and articles to BSSS this way. It (1) helps us save time because we don't have to type it, and (2) it will save time because when you have sent your file(s), the material is here! No delays or other risks associated with the U.S. Postal Service. We get several clubs' minutes on disk each month, and there always seems to be at least one we cannot read. Many clubs send hard copy only. If you send BSSS material on a regular basis, and if you have a modem (or can beg one), please do so. You will be helping us do what we strive hard every month to do: to serve you the best we can. Many thanks.

- Jim, K9ZZ, BSSS Editor

How to Send Club Information, Articles, and Messages to BSSS by Landline Modem

The RF Deck landline bulletin board in Baraboo, owned and operated by SYSOP Steve Schulze, N9UDO, is now ready to accept your files for BSSS. Here's how to send them.

1. The telephone number is (608) 356-4777. Call it with your modem and answer the new user questionnaire. The board will prompt you as you go.

2. To send your club's minutes and other news, you will need to go the file menu and change to the BSSS UPLOAD AREA. This is File Area #34. Choose <U>pload File from the File Menu, and then follow the prompts. Note that there are NO files in this area for download.

3. To send messages to the BSSS crew, the SYSOP, or to others, choose Message Conference #6. This would be the proper place for short, last-minute corrections or updates, etc.

PARTICIPATING
Clubs and Organizations

Wisconsin Nets Association Ltd.

WNA MEETING
STEVENS POINT, WI
June 12, 1944

Chairman Larry Guthu, WB9ICH, called the meeting to order at 11:25 a.m., June 12, 1994. The following members and guests were present:

WB9ICH, WB9YPY, W9AYK, NS9Q, N9BDL, WB9ESM, K9-UTQ, N9LMW, W9NGT, W9-RZW, KA9KLZ, W9IHW, W9NGP and K9DHR.

Chairman WB9ICH called for the approval of the minutes of the March meeting as mailed and published in *Badger State Smoke Signals*. A motion was made and seconded (K9UTQ/N9BDL) to approve the minutes as published. Motion carried.

Treasurer Jim Merrill, W9AYK, gave the following report:

WNA LTD TREASURER'S REPORT
JUNE 10, 1994

INCOME	EXPENSES	BALANCE
Balance on hand Mar. 20, 1994		$68.85
KA9KLZ Secy. expenses April 94	11.30	57.55
Balance on hand June 10, 1994		$57.55

Submitted:

W9AYK Treas. Jim Merrill

ARRL OFFICIAL AND NET MANAGER REPORTS

SECTION MANAGER (SM) -- SM Rich Regent, K9GDF was not present.

SECTION TRAFFIC MANAGER (STM) -- STM Don Stenz, K9KSA was not present.

SECTION EMERGENCY COORDINATOR (SEC) -- SEC John Leekley Jr., WB9SMM was not present. Sherm Carr, W9NGT, Asst. SEC, reported that the State Wide Tornado Drill was a resounding success. There were 319 checkins, which was a vast improvement over last years 185. Sherm reported that the Weather Bureau was very impressed.

WEATHER NET (BWN) -- Net Manager Jim Merrill, W9AYK, reported that the BWN was running along normally with 65-75 checkins and a normal traffic load. Jim reported that summer conditions were bad with lots of QRN.

BADGER EMERGENCY NET (BEN) -- Net Manager Wayne Schanke, KE9VU, was not present, but he sent a letter to WB9ICH stating that things were going good with the net. Checkins are averaging 40 and traffic averaging 4. Could use a NCS for Saturday and 9RN reps as always. W9CBE and K9DHR have been doing most of the 9RN duties. Thanks to all who filled in on Saturdays as NCS.

WISCONSIN SIDEBAND NET (WSSN) -- Net Manager Gene Santoski, K9UTQ, reported that the net was running along normally, with a couple of bad nights. Gene reported that there were 12 people waiting for net certificates and he would try to get them out as soon as possible. The net is averaging 4-5 pieces of traffic and 25 checkins per net. Sherm, W9NGT, reported that he had contacted Rich, K9GDF, and that Rich had written a letter to the Florida SM to see if anything could be done about the continuing problem with the Florida net following the WSSB net. Sherm said he would contact Rich again to see if anything further can be done.

WISCONSIN NOVICE NET (WNN) -- Net Manager Adrian Apple, KA9FVX, was not present. No delegates were present and no report was given.

WISCONSIN SLOW SPEED NET (WSSN) -- Net Manager Lee Andreas, N9BDL, reported that WB9ICH is back in the fold as Wednesday NCS. Lee reported that traffic and checkins are down a little. Lee reported that he is getting some Minnesota stations on the WSSN now. Lee reports the NCS's for the WSSN are as follows:

Monday	W9NGP
Tuesday	N9FVN
Wednesday	WB9ICH
Thursday	N9BDL
Friday	open
Saturday	KY9P
Sunday	N9KHD

Lee also said that we should talk up all Wisconsin nets.

WISCONSIN INTERSTATE NET/-EARLY (WIN/E) -- Net Manager Larry Guthu, WB9ICH, reported that the net was doing OK. As always, 9RN reps are needed. A special thanks to Lee, N9BDL, for filling in as NCS while Larry was working nights.

WISCONSIN INTERSTATE NET/-LATE (WIN/L) -- Net Manager Ed Rice, W9NGP, reported that the net was going fine. Ed had some figures comparing the first half of 1993 to the first half of 1994. The figures showed that checkins were up 23%, traffic offered was up 25% and traffic cleared was up 15%.

NORTH WOODS TRAFFIC NET (NWTN) -- Net Manager Mary Berger, NS9Q, reported that the net was still there and running fine. The net is averaging 13-14 checkins in about 30 minutes per session.

OLD BUSINESS

Art, KA9KLZ, passed a copy of the WNA manual around. Art also reported that copies of the manual are available on disk in both IBM and Commodore formats. A copy in Amiga format is in the works. If anyone can get a copy in MAC format, let Art or Les know. There was some discussion on possible ways to get the manual printed.

NEW BUSINESS

There was much discussion on ways to cut expenses at the annual picnic. Perhaps the WNA should stop furnishing drinks and cut down on the amount of money apportioned for prizes. There was discussion on the possible locations for the picnic, but no decision was reached at this time. The date for the picnic will be Sept. 17.

Lee, N9BDL, remarked, concerning the WNA manual, that Traffic Man should be changed to Traffic Person.

With no further business at hand, Chairman Larry Guthu, WB9ICH, adjourned the meeting at 12:50 p.m., June 12, 1994.

Respectfully Submitted:
Art Evans, KA9KLZ, WNA Secy.

ADDENDUM to MINUTES

Chairman Larry Guthu, WB9ICH, announced on July 8, 1994, that the September meeting and picnic would be held in Waupaca, WI. The site will be South Park, a Waupaca city park just south of the business district. Hours will be from 10:30 a.m. until 4:00 p.m. The meeting will be held immediately after lunch. Talk-in on 146.52 and the Waupaca repeater, 147.39. Anyone wanting to camp for the weekend, contact Roy, K9FHI. Roy will try to reserve several adjoining spots for interested parties. Hartman Creek State Park is the likely spot for camping.

Art, KA9KLZ, WNA Secy.

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, August 4th at 7 p.m. in the Emergency Government meeting room, located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

MEETING PROGRAM

Following the business meeting, a half-hour videotape of the July 4, 1992 N9MCH special event station at the Highground War Veterans Memorial near Neillsville, WI will be shown. This is a carryover from last month's meeting, as the video did not get shown.

EXCERPTS FROM MINUTES OF JULY 7, 1994 MEETING

Meeting was called to order by President N9GEN. Present were N9GHZ, KE4FE, KA9WDX, N9UBR, KB9BLV, N9GEN, WA9YCT, and W9QHI.

Minutes of the June 2, 1994 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer WA9YCT. There was no income since the last meeting. The quarterly billing from *Badger State Smoke Signals* has been paid.

The secretary was directed to send a letter of thanks to WA9W for his assisting us with the VE exams held at Medford on May 14th.

N9GHZ reported that he had contacted Midway Telephone Co. about including our club's name in their listing of community organizations in the next Medford phone book. A form has also been filed with the Medford Chamber of Commerce, providing information about our organization, which will be included in an information packet that goes out to new residents in the area.

N9GHZ read from some correspondence from N9VZG, secretary/treasurer of the Black River Wireless Association (BRWA). They are seeking new members to help finance a 2-meter repeater to be located at Loyal, Wis.

KB9BLV reported that he is still trying to get together with N9RRF to complete the sale and transfer of the old 147.15 Medford repeater hardware to the BRWA.

WA9YCT reported that although there is no mandatory user fee, the city of Medford was seeking a voluntary donation from our organization towards the upkeep of the City Park facilities, in connection with our recent use for Field Day. Motion by N9GHZ, seconded by KB9BLV, to make a donation in the amount of $10.00 to the city of Medford for use of the City Park and facilities for 1994 Field Day activities. Motion carried.

WA9YCT reported hearing a series of 3-4 touch tones being transmitted on the 147.15 Medford repeater on June 8th and again on June 10th. Other members present reported hearing the same thing happening on various dates and times. Everyone was advised that if this happens again in the future, you should identify yourself and then request identification from the unidentified person. Also, check the repeater input frequency for the presence of the signal, if possible, and keep a written log of each incidence, including date, time, signal strength, and other pertinent information.

N9GHZ was directed to check with the Taylor County Emergency Government Coordinator concerning a bill for the installation of a DC power cable in the Taylor County emergency command post bus.

Meeting was adjourned.

Clark/Taylor County Amateur Radio Emergency Service (ARES) News

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net, held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down, or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

FIELD DAY REPORT: 1994 Field Day activity by the Taylor County Area Amateur Radio Club was rather light this year in comparison to 1993. The majority of the set-up and operations was handled by NZ9U and KA9WDX, who were operating both Saturday and Sunday from the 1994 site at the Medford City Park. They did have some ham and non-ham visitors on and off during the period of time they were operating. They operated a single HF station, using a 1/2 wavelength 160 meter dipole in conjunction with an antenna tuner. It was reported that about the same number of contacts were made this year as were made last year.

WEEKLY ARES NET REGISTRATION: The appropriate form has been filed with the ARRL to register the weekly Taylor Co. ARES Net, so the information should appear in the next edition of the *ARRL Net Directory*.

SUMMARY OF COMMUNICATIONS SERVICES PROVIDED: The first annual American Cancer Society "Making Strides Against Cancer" 5-mile walk/run was held in Medford on June 11th from 10 a.m. to 12 noon. Co-sponsors for the event included the Medford Clinic, Memorial Hospital of Taylor County, and Radio Station WIGM. Over 90 individuals (including some cancer survivors) of all ages, including runners, walkers, bikers, and roller-bladers, participated. Amateur Radio communications for the event were provided by N9GHZ, KB9IQL, N9MED, N9UBQ, N9IFA, and KA9WDX, utilizing the 147.15 Medford repeater. My thanks to all who assisted with this activity.

A letter of thanks from the American Cancer Society was also sent to everyone who assisted.

CONGRATULATIONS TO....

✔ Nathan Newman, N9NDT, Gilman, who recently obtained Eagle Scout status at an award ceremony held at the Gilman High School on June 25th.

✔ Tom Wegner, N9UWY, Neillsville, who passed the 13 WPM Morse code receiving test at the VE exams held in Marshfield on June 11th. Tom only needs to pass the General written exam now to upgrade to General Class. □

Club Deadline Reminder

Participating clubs are reminded to send meeting minutes to the editor no later than five days after meeting. Articles, stories, photos and photos may be sent at any time, and are always welcome. If the photo or story material has "time value," please send it as soon as possible.

SHEBOYGAN
County Amateur Radio Club

★

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

The July meeting of the Sheboygan County Amateur Radio Club was held the morning of Field Day. No formal July meeting was held. The club meets every 2nd Tuesday of the month at the Red Cross Building, 2032 Erie Ave, Sheboygan, WI at 7 p.m.

ANNOUNCEMENTS

The next meeting of the SCARC will be August 9th at 7 p.m. If this is your first time to attend, talk in directions are normally available on 147.06 MHz (+107.2PL). Programs for the meeting include 6 meter operating techniques, and battery care myths and facts.

Field Day '94: Thanks to all who participated to make Field Day '94 a great time. We all caught "Field Day Fever", as Penny, N9TCF, so appropriately put it. We operated 3 stations on all the HF bands that made 644 CW QSO's and 569 SSB QSO's. Niel, N9TBQ, and Al, NF9R, also set up a packet and voice VHF station. This was the first year we did all of the logging on computer.

Nets, Weather Nets, and the Repeater Courtesy Tone: The severe weather season is upon us. Remember to listen for the courtesy tone of the 147.06 repeater. The two tone (low tone, high tone) courtesy beep indicates that the repeater is open for general amateur use. A Morse code letter I (two short beeps) indicates a severe weather watch is in effect. A informal weather net may also be in progress. Please keep transmissions short and leave long pauses. This will allow net control to quickly activate a full weather net if conditions change. A Morse code W (di dah dah) indicates that a severe weather net is in progress. All traffic should be directed to net control. General amateur use should move off to the N9REH repeater, 147.255 MHz (+127.3PL), or to a simplex frequency. A Morse code N (dah dit) indicates a special net is in progress. This may be a social, public service, or other type of formal net. All traffic should be directed to net control. The SCARC has a social net that meets every Monday evening at 7 p.m. on 147.06 MHz (+107.2PL). Everyone with a Technician class or higher Amateur Radio license is welcome to check in. This is the perfect place to get used to net operation. If you would like to serve as net control for a particular Monday, contact Chris, N9VKC for available dates.

Future Events:

Aug. 9: SCARC meeting. Programs on 6 meter operation, and battery care.

Aug. 27: Brat Fry Fundraiser at Woodlake, Kohler. This is to benefit the club. Volunteers needed.

Sept. 13: SCARC meeting. Program on balloon launched radio experiments.

Sept. 17: Plymouth Health Fair on the Old Plant Road Trail. Volunteers needed for communications along the trail.

If you would like to help out with any of the above events, contact Penny, N9TCF.

BUSINESS AND COMMITTEE REPORTS

Penny, N9TCF, the Public Service Coordinator, put out a call for more volunteers for upcoming events. Al, NF9R, announced that updated club rosters were now available from him. No new business was voted on at this informal meeting.

Submitted by Mike Musiel, KF9SJ

Washington County
Amateur Radio Club

David Parkinson, KA9RNU,
Secretary/Treasurer
708 Robin Street
West Bend, WI 53095

MEETING MINUTES

The July 14th meeting of the Washington County Amateur Radio Club was called to order at 7:30 p.m. by our president, Mike, N9NBN. The minutes were read by Dave, KA9RNU. A motion was made by Don, K9GR to approve the minutes and seconded by Gary, W9XT. The minutes were then approved as read by the sustaining membership.

The treasurer's report was read by Dave, KA9RNU. A motion to approve the treasurer's report was made by Larry, WB9BVB, and seconded by Bob, N9LNZ.

We had 13 members and one guest, Ted, N9LLT, present at the meeting.

OLD BUSINESS

Tom, N9LZW, reported for ARES. He encouraged more hams to check into the Thursday night net and also into the net during severe weather conditions.

Larry, WB9BVB, reported on the club picnic, which will be held at Sandy Knoll Park on August 14th, and a rain date of August 21st. It will be potluck. (No reserved sites will be made. The park is northeast of West Bend. Take Hwy 33 east until Trenton Road. Go north and turn east on Wallace Lake Rd. Park will be north side of the road).

Walt, N9LLS, reported on Field Day. and we earned 2764 points. This compares to 4070 points earned last year. This year we made more SSB contacts and less CW contacts than last year. The weather and the shortage of operators were other key factors. It was commented we must be more flexible with both CW and SSB HF stations.

Don, K9GR, encouraged members of the club it was time for us now to contribute monetarily to the repeater fund. After this weekend, we can begin to construct the repeater at its new location, and funds are needed for this project to begin. We need at least $1000 up and beyond the donations which have already been received. K9GR went into the various items required to start the project. Sherm, W9NGT, said the estimates are subject to change where unforeseen difficulties may occur. We must be prepared to pay more.

Bob, AA9EF, motioned to send newsletters to all amateur operators in Washington County. Larry, WB9BVB, seconded it and the motion was carried. Gary, W9XT, volunteered to write up a combination newsletter. Dave, KA9RNU, agreed to address the newsletters to the respective hams.

Sherm, W9NGT, said we will need people to help bury approximately 1700 feet of grounding wire when we are ready to start. Don, K9GR, mentioned other items besides the radial wire will be a need of three sections of 10 foot Rohn 25 tower.

NEW BUSINESS

Walt, N9LLS, announced the Hartford Christmas Parade will be held on November 13. Ham operators will be needed, and remember to put it on your calendars.

Mike, N9NBN, passed around flyers for the upcoming swapfests at Eau Claire

Please turn to page 12

Quarter Century Wireless Association
Southern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Racine, WI 53402

One day last May, our Secretary-Treasurer, Bob Jensen, WØWLN, was sitting in the kitchen of his Condo, working a two-meter contact when he noticed smoke rising from the floor boards in his living room. Sounding the alarm, Bob stood by as the Fire Department responded with great efficiency. The axe and soot-infested gloves seemed to be the department's tools for up-close fire fighting; the axe to open and the gloves for wall rubbing. I am being facetious, but to look at Bob and Gladys' home after the firemen left, one could make a case for the fore-mentioned scenario.

The firefighters cleared Bob's smoke-filled basement with the aid of a fan after clearing the undamaged window with an axe. A simple turn of a latch and a gentle pull would have opened the window without destroying it. As the firemen traversed the condo, they deposited black soot on most of the walls. A very large hole (one could drive a car through) was chopped in the wall separating Bob's condo from the vacant one where the fire started. The hole was finally repaired the second week in July and the walls will be cleaned and painted early in August; and everything will hopefully return to normal at the Jensens.

Another of our members, Steve Bellgraph, K9ZL, had been missing many of our monthly Monday evening meetings. Steve said that most of the groups he held membership in and/or activities that he actively pursued, took place on Monday evenings. He finally fessed up that a painting class was our rival for his time. At the end of our last scheduled meeting, we were treated to samplings of his artistry. We viewed water color and chalk drawings of still life and live models. Excellent workmanship. But it seems that when the live model was male, Steve managed to slip away to attend our chapter's meeting; when the model was female, Steve was required to be in class. That's the story he told us, what do you think?

Ed, WA9Y, and Cecilia Westberg, our Florida members, were in Racine for a short visit the last two weeks of July. Our Social Director - Secretary - Treasurer, Bob, WØWLN, queried the membership about a gathering of the clan for a sit-down meal and welcoming the Westbergs back to the Dairy State. Ten members and six spouses dais aye and enjoyed two and a half hours of fine conversation, a nice meal and excellent companionship at the Around the Clock Restaurant on the 18th of July. Our banner and history files were on display.

Speaking of history files, I find that pictures from our Anniversary Banquet and the Great Annual Mosquito Awareness outings are not in attendance in the picture book. If you have any of these pictures, please bring copies to the picnic so I can keep our files current.

The picnic will be held at the home of Larry, WA9JMO, and Wendy, N9PAC, McCalvy, 5400 Six Mile Road, Racine, on Sunday, the 14th of August, from 1 to 4 p.m. The chapter will provide soft drinks and watermelon. Larry and Wendy will have fresh roasted corn and a large grill available. Attendees are asked to bring a food dish to pass and their own meat to grill. The fishing is great, the swimming refreshing and the canoeing relaxing. Fern, I have been training that large fish to strike only on your line this year. Pictures and collectibles from Russia will be on display. Talk-in will be on 147.27 if needed. I have requested a sunny day with a temperature of 78 degrees and soft gentle breezes. Hope to see most of you on the 14th.

I am happy to say that Olie Fox, K9AKG, has moved form the Racine Community Care Center into a home environment. And most of the Chapter members had the opportunity to share cake and coffee with Olie at his home on Sunday, the 3rd of July, in celebration of the 91st anniversary of his birth.

As a reminder, our Chapter, in conjunction with the Racine Megacycle Club, will conduct Amateur Radio Classes for the Codeless Tech, Novice and General Class licenses beginning on Wednesday, September 21, 1994, for 8-weeks. Class location is the Gifford Elementary School, 8332 Northwestern Ave (Hwy. 38) in Racine. Advance registration is requested, and family participation is encouraged. Classes will begin at 7 p.m. for two hours. Registration begins at 6:30 p.m. I am looking for instructors and assistants. For clarification and further details contact: Larry McCalvy, WA9JMO, 5400 Six Mile Road, Racine, WI 53402, telephone (414) 639-7327, FAX (414) 639-3320.

73, Larry McCalvy, WA9JMO

Northern Wisconsin Radio Club
- Since 1923 -

Steve Hart, KA9OMC, Secretary
Route 1, Box 54 • Knapp, WI 54749

Greetings NWRC members and guests,

The last gathering was the club sponsored Field Day exercise on the 25th at the Boyceville airport park. Amateurs started to arrive around noon. A proclamation of recognition was signed by Village President Ted Bissell in observance of the activity and of the efforts of amateurs in emergency preparedness.

The following amateurs were in attendance:

WJ9Y, Marlin
KA9OMC, Steve
N9WJY, Rod, and son Ryan
WB9OKQ, Lyle, and daughter Sarah
KF9CU, Arlene, and husband Dave
N9PPE, Jeff
N9MLX, John

Weather dictated a short Field Day, with a severe storm watch being issued around 4 p.m. Marlin and Lyle built a 15-meter dipole form scratch, Jeff erected a VHF beam on an 18-foot mast, while I (KA9OMC) assisted Rod on reworking a 18V vertical. Contacts were made on 15 and 75 meter phone. Some CW contacts were attempted. There was also plenty of food and great conversation to make this another successful club event.

Thanks also to Ron, WB9WKO, for offering to pick up any additional expense that might have been involved in over night camping and electrical.

The club has heard from the following members:

❀N9PPE, Jeff, at Bloomer, is gathering equipment for satellite work.

❀N9RSU, Leroy, at Eau Claire, is getting closer to putting his 440 MHz repeater on the air.

❀N8MMC, Ed, at Boyceville, has renewed his membership and subscription to *BSSS*.

❀N9XGQ, at Plum City, has finally received his ticket and is now active on 2 meters.

❀Welcome Ron Delong.

❀NX9F, Jim, at Menomonie, reports the annual TinMan event will be on August 27. Over twenty volunteers are needed to handle communications. Contact Jim at 235-3998.

The next meeting of NWRC will be September 27th in Menomonie.

Balance in the account is $120.93.

73.

NWRC Secretary/Treasurer
KA9OMC, Steve Hart

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

MEGACYCLE CLUB MEETING JULY 11, 1994

The meeting was started at 7:35 p.m. by President Gary, N9MGH. All officers and about 31 hams were present. Everyone was asked to introduce him/herself with first name and call sign.

The minutes by Arne, KA9ZPY, could not be approved at this meeting, since very few had received his/her copy. The *BSSS* was late due to illness by the editor. (Jim, I hope you are better.)

Treasurer Dave, AA9HL, gave his report.

President Gary, N9MGH, gave a report on the Field Day, since Field Day Chairman Jim, KB9CCY, was not present. All went well, the generator worked perfect. It was discovered that we need some newer tires. This will be looked into. It looks like we have found a nice place for Field Days. Larry, WA9JMO, also brought up a few of the problems and suggested some improvements for next year.

OLD BUSINESS

There was none.

NEW BUSINESS

Dan, KA9OIL, gave a report on the last Fox Hunt, who the winners were, and where the next one will start. Please contact Dan for more information.

Dan also reported that Jim, W9LXY, has stepped down as the club station licensee. Dan, KA9OIL, has accepted to be the new licensee.

Cheryl, WS9P, talked about the upcoming ham classes, which will start in mid-September. Cheryl returned the RMC 150 dollars, which she had received earlier for ham classes.

Cheryl then took over the meeting for some time so she could receive the orders and money for the new Racine Megacycle Club jackets and caps. Many hams took the opportunity to check the size of the jackets, since there was one jacket of each size available for tryout. There are orders for at least 15 jackets and numerous caps. The order was turned in 7/12.

Dave, WB9USI, gave a report on the upcoming Hamfest in Racine. It was take place, as last year, at the South Hills Country Club. Dave said he was pleased with all who signed up to help out. There will be a meeting/breakfast the same morning at 5 a.m. at the Colony Inn, Hwy. 20 and I-94, where Dave will give the assignments and any other directions.

The Goodie Box, a record heavy load including a computer monitor, was won by Ken, W9WHR. It was all so heavy it required a cart. The cart was unfortunately not part of the winning! It belonged to Bill, W9OVZ. I hope the Goodie Box does not become the Goodie Load/Anchor.

The meeting was adjourned at 8:40 p.m., and many hams met later at the usual "watering hole."

Sincerely submitted:
Arne, KA9ZPY, Club Secretary

HAM CALENDAR
Courtesy Racine Megacycle Club

Jul	22	Fox Hunt
Jul	23	Hamfest at Eau Claire
Jul	24	Hamfest at Hawthorne
Jul	31	Hamfest at Sugar Grove
Jul	**31**	**☆ Hamfest Racine!**
Aug	7	Hamfest at Peotone
Aug	**8**	**MEGACYCLE MEETING**
Aug	14	Hamfest at Cedar Rapids
Aug	14	or
Aug	21	Picnic QCWA
Aug	19	Fox Hunt
Aug	27	Hamfest at Onalaska
Aug	27	Hamfest at Sugarcamp
Aug	28	Hamfest at McHenry
Sep	3	Testing at Red Cross
Sep	8	Ham classes at Racine
Sep	11	Hamfest at Joliet
Sep	**12**	**MEGACYCLE MEETING**
Sep	16	Fox Hunt
Sep	17	and
Sep	18	Hamfest at Peoria
Sep	19	QCWA Meeting
Sep	24	and
Sep	25	Hamfest at Grayslake
Oct	1	Testing at Red Cross
Oct	**10**	**MEGACYCLE MEETING**
Oct	14	Fox Hunt
Oct	16	QCWA meeting
Oct	23	Hamfest at Waukesha
Nov	5	Testing at Red Cross
Nov	5	Hamfest at Waukesha
Nov	6	Hamfest at Kaukauna
Nov	11	Fox Hunt
Nov	**14**	**MEGACYCLE MEETING**
Nov	21	QCWA Meeting
Dec	3	Testing at Red Cross
Dec	9	Fox Hunt
Dec	**12**	**MEGACYCLE MEETING**
Dec	18	QCWA Christmas Party

1995

Jan	8	Hamfest at Waukesha
Feb	28	Hamfest at Eau Claire
Apr	2	Hamfest at Madison
May	13	Hamfest at Manitowoc

Washington County Amateur Radio Club

Continued from page 11

and Racine.

A motion was made by Sherm, W9NGT, to adjourn. Don, K9GR, seconded it, and the motion was carried.

The program was a video on infectious diseases by the Red Cross.

The next club meeting will be held on August 11th at the County Courthouse in West Bend at 7:30 p.m. The program will be on Amateur Radio via satellite, and N9VGO will present it.

Saturday 10:00 AM breakfast schedule for August

Aug 6th: Around the Lakes 2, Hartford
Aug 13th: Corfu, Richfield
Aug 20th: Slinger Inn, Slinger
Aug 27th: Fay's, West Bend
Sep 3rd: Jimmy's, Jackson □

BRIEFLY NOTED

✓One of those "urban legends" is again making the rounds. Like the Craig Shergold plea for get-well cards, this one has attained urban legend status: one of those stories that will not go away. This time, it's the story about how the term "ham" operator came about. It's being circulated on packet BBSs. This version concerns the initials "H. A. M.", but, folks, it ain't true. That one, with many others, has been researched and found to be untrue or unprovable. If you read it, toss it in the trusty round file.

✓BSSS is NOT yet being mailed by second class mail. K9EN IS working on the "project" (it IS a project; many details and lots of money), and wants to get it done soon. Keep the thunderstorms away for a week or two so he doesn't have to keep fixing radio stations' zapped equipment, and he will get it done. You'll get faster delivery and we all (especially me) will be a lot happier! Thanks for your patience with us volunteers. It's much appreciated.

- Jim Romelfanger, K9ZZ, Editor

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point

WATTS SNOO

AMATEUR RADIO CWRA

WB9QFW 2-Meter Repeater 146.07 .67 and Club Station

P. O. Box 923 • Plover, WI 54467

President Art Wysocki, N9BCA called the meeting to order at 7:30.

In the absence of Secretary Joe Larson, N9JW, and Treasurer Scott Jasper, NE9U, Lori Jasper, KA9ZGD filled in.

A detailed treasurer's report listing our income and expenses during the past two years was presented.

The results of our two major fund raisers, the raffle and swapfest were discussed. Attendance at the swapfest was in line with past years while table sales were down slightly. Raffle sales were also slightly down. A question was raised as to whether we want to continue with the raffle in its present form. It seems a lot of members are purchasing their own tickets, so why not hold an internal raffle, or just raise the club dues? A committee was appointed to ponder the matter.

Another possible source of funds for our club would become available if we became a federal tax exempt organization which would allow foundations, businesses, etc., to make charitable donations to us. Scott, NE9U, will pursue this matter, make recommendations to the club and, along with Mike, KA9LAQ, take care of the book of forms that will need to be filed with Uncle Sam.

John, WA9LWJ, announced that the QCWA picnic will/was held Saturday, July 16th at Lake Dubay county park. The park has camping, swimming, an indoor lodge (in case of rain). Hopefully rain didn't happen and everyone had a good time!

Next on the agenda was the CWRA Fox Hunt, scheduled for Wednesday, August 10th at 6:30 p.m. The hunt will begin in the parking lot across from the WB9QFW club station. Detailed information will be distributed at that time. General rules will be the same as usual. An automated 2-meter 300 mW transmitter will be hid somewhere within 10 miles of the parking lot, and will transmit 10-15 seconds out of each minute. After the hunt, we are all invited out to the W9NN QTH for a picnic.

To get us all in the mood for the fox hunt, the ARRL video on fox hunting, Chinese style, was shown. Also, several handouts of practical DFing antennas and miscellaneous DFing info was distributed.

Hope to see you all at the Fox Hunt!!

Scott, NE9U, CWRA Treasurer

Attendance

Lori Jasper	KA9ZGD
David Tamres	KB9IIF
Gene Kroll	KE9MA
Deb Kroll	N9EIL
Steve Kochanowski	KB9IIE
Frank Guth	W9BCC
Gene Santoski	K9UTQ
Bob Baird	W9NN
Tom Pliska	K9CJM
Ray Dix	KF9BG
Joanna Dix	N9NOG
John Kalina	KA9DJA
John Feltz	WA9LWJ
Mike Pagel	KA9LAQ
Joe Omernik	N9CGV
Jim Benak	KA9ACE
Mary Benak	WØMEN
Mike Urban	KB9GXV
Art Wysocki	N9BCA

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

SPECIAL SERVICE CLUB ARRL

MEETING MINUTES JULY 13, 1994

The meeting was called to order at 7:42 by Club President Steve, N9PBL. Treasurer Janice, N9IQZ, read the treasurer's report. This, along with the June minutes that were printed in the *Smoke Signals*, were approved by the club.

OLD BUSINESS

Club President Steve, N9PBL, announced that the club's board members have decided to shelve plans for purchasing a generator to provide power for emergency communications. Two reasons were given for doing this. For starters, the money used to buy a generator could be better used for other things, such as improvements to the club's repeater (Clancey, KB9ECW; Red, N9GHE; Ron, WS9X; and Steve, N9PE (last letter of this call-sign not readable - BSSS ed.) will see what can be done to improve the repeater's coverage). Secondly, during emergencies, the club has access to Red Cross facilities, and to club members' generators.

Chuck, W9BZU, was recognized by the club for his 66 years of Amateur Radio service to the community. Recently, an article was written up by the local newspaper (The *Herald Times Reporter*) about Chuck, and the mayor of Manitowoc and several club members (such as President Steve, N9PBL) presented Chuck with a plaque from the club recognizing his 66 years of Amateur Radio service. The week of the presentation was declared Amateur Radio Week in Manitowoc by the mayor. At the club meeting, Chuck showed the members plaques he received from the ARRL for his many years of membership in this organization. He also showed the meeting attendees the plaque he received from the club, and said that he was very honored and deeply touched to be recognized in this manner by the club.

Yogi, WN9Q, then talked about the club's Field Day activities that took place this year. Once again, we operated from Silver Creek Park on the south side of Manitowoc. The class operated in was 2A. Several dipoles and a Cushcraft R7 recently purchased by the club were put to good use. In spite of the fact that it rained on Sunday morning, many contacts were made on HF and VHF (6 meters was operated on for the first time this year). Also, several successful satellite contacts were made through RS 12. Overall, Field Day 1994 was quite successful for ManCo-Rad. Thanks to everyone who helped set up, operate, and take down everything during Field Day.

Thanks are also in store for everyone who helped with providing communications for the bike races on July 9 in Manitowoc, and the bikeathon that went through Manitowoc County on July 15 and 16. Communications for the bike races were set up on a relatively short notice. Thanks to the efforts of club member Bob, KA9-INK, who did the coordinating, things ran very well. Also, communications worked very well for the Leukemia Society bikeathon that went through Manitowoc County on the weekend of July 15 and 16. Ham radio communications proved to be indispensable for both bicycling events. Claudia, the bike race coordinator for the Manitowoc Downtown Association, thanked the

Continued on page 13

ManCoRad Radio Club

Continued from page 12

club for its assistance at the race.

The club also discussed stenciling or silk screening the ManCoRad logo on the blaze orange vests that are used for special events. This will be looked into to determine what method will be used.

NEW BUSINESS

Club President Steve suggested that the club should try running a net on the club repeater on Thursday nights at 7:30 p.m., since many members are unable to check into the Sunday morning club net on the repeater because they have gone away for the weekend, A Thursday night net would give them a chance to keep in touch with club members, and club activities, in the same manner as the Sunday morning net does. The first net was held on Thursday, July 14, and proved to be successful, with 17 members checking in. This has encouraged the club to continue with the net.

A date has been set for the special event station on the World War II sub U.S.S. Cobia. It will be on August 27, from 9 a.m. to 5 p.m. Two radios will be operated from inside of the sub on 20M and 40M phone, with 10M being operated on (if conditions are good) to provide contacts to Novices and Technicians. Any club members interested in operating from the sub should contact Eric, WD9IAB, or Steve, N9PBL.

The club voted to grant membership to Jeff Blahnik, N9XEV; Loren Barnard, N9XER; Terence Gunderson, N9PZT; and Sharlene Peterson. Welcome to the club, people!

Len, N9QFO, told the club about the possibility of receiving substantial savings (as a ManCoRad club member) on subscriptions to *CQ* and *73* from a magazine subscription service in California. These would be at group rates (if sent in by the club members who are interested). Anybody who is interested is this should contact Len, N9QFO. By the way, Len thanked the club for the flowers that were sent to him after his surgery. *Welcome back, Len!*

The meeting adjourned at 9:08 p.m.

73, Eric, WD9IAB
ManCoRad Secretary

MEETING ATTENDEES
July 13, 1994

Steve	N9PBL
Mary	KB9GOY
Janice	N9IQZ
Ron	WS9X
Jim	N9KGK
Glen	KF9VB
Eric	WD9IAB
Charlie	W9GXD
Chuck	W9BZU
Vic	WB9VYO
Clancey	KB9ECW
Loren	N9XER
Jeff	N9XEV
Dick	N9QFY
Red	N9GHE
Ed	N6WJA
Paul	N9QFX
Len	N9QFO
Ken	K9HAG
Yogi	WN9Q
John	NZ9Z
Sharline	
Terry	N9PZT
Jim	KB9GOX
Ken	WD9ERO
Tom	KB9IJR
Bill	K9DUX
Bob	KB9INK

Eau Claire Amateur Radio Club

J. Brennan Fitzl, N9LIJ, Secretary

1418 Altoona Avenue • Eau Claire, WI 54701

MEETING MINUTES
JULY 12, 1994

The meeting was called to order by President Kevin Zehr (N9OHE) at 1930 local time.

The minutes of the previous meeting were approved as published in the *Badger State Smoke Signals*.

Sue Eide (KB9EUP) read the treasurer's report.

A general introduction of members and guests followed, with 36 present.

There has been another lightning strike to some club-owned packet equipment. Fred (KC9NN) made a motion that the club replace it if possible, otherwise repair it. Motion passed.

Jim (N9LIJ) reported that the radio and power supply at the Comm Center has been removed, since there is no longer room for it. The club, after extensive discussion, decided that it will be sold at the hamfest.

N9LIJ also reported that the J-pole antenna built and donated to the club by Rich (N9SPK) has been installed on the radar tower at TV-13 for Skywarn nets. Thanks to Rich for the antenna. It works very well.

Also, remember during Skywarn nets, please do *not* repeat/read reports from scanners or commercial radio/TV sources. These people rely on spotter reports for their information, and *we* are the spotters. This information is not only often out of date, but may even be our own reports.

Remember, if your ARRL membership is up due for renewal, please renew through the club.

HAMFEST

Paul (WØAIH) will haul the trailer to the fairgrounds.

The kitchen work is progressing. All members reminded to bring bars/baked goods for the kitchen to sell.

Ticket sales will begin at 7 a.m.

Overnight security will be Fred (KC9-NN), Jim (WB9RBP), and Jim (N9LIJ).

Thus far, 94 of 136 tables have been reserved. This is ahead of last year.

Table pickup/setup will be Thursday afternoon/Friday morning.

N9OHE is looking into signs to direct people to the site.

We are still looking for donations for door prizes.

We still need a volunteer to MC and operate the PA system.

Prize money drawing was extensively discussed, and finally settled. Drawings will be held every 20 minutes, beginning at 8 a.m.

Lunch committee for next meeting: KC9NN, WU9R.

Meeting was adjourned at 2105 local time.

Respectfully submitted:
J. Brennan Fitzl, N9LIJ, Secretary

Riverland Amateur Radio Club

Judy Williams, N9LGV
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650

MEETING MINUTES
JULY 5, 1994

The July meeting of the Riverland Amateur Radio Club was called to order by president Feroz, WU9N. There were 24 members present, and Art's, WØJDC, wife Lou and sister-in-law from California were also present.

Secretary's Report: Feroz, WU9N, read the minutes of the June 7, 1994 meeting due to Secretary Judy, N9LGV, having to be somewhere else. Duane, W9HWQ, made a motion for approval with a second from Bob, N9LZK, which was passed.

Treasurer's Report: Mark, N9UNW, reported that there is $1,674.97 in the checking account of which $641.18 is for the 440 repeater fund. There is $2,699.58 in the savings account.

OLD BUSINESS AND COMMITTEE REPORTS

Field Day: Karl, KB9EQI, reported 723 HF contacts were made. Bob, N9-LZK, reported multiple 2 meter and packet contacts despite rotor problems. The downtown site for public involvement was quite successful, aided by the ingenious antenna expertise of Nook, K9EGO. Next year efforts will be made to keep the contesting site and public site closer together for better use of club members.

Swapfest: Clarence, N9NXW, reported that the swapfest will be held on August 27 at the Onalaska American Legion Building/Grounds. It will be a joint activity with the Antique Radio Club. Working committees will be set up, with many volunteers needed. Clarence, N9-NXW, made a motion which was seconded by Bob, N9LZK, to pay the $175 rental fee. The motion passed.

V.E.C.: Rick, KV9U, was unable to attend the meeting. However, a class for 10-12 prospective hams is hoped for in the l with a test session to follow.

Trailer: Bob, N9LZK, reported on the use of the club trailer for the public site at Field Day. Walt, AA9AW, made a motion which was second by Clarence, N9NXW, to reimburse Nook, K9EGO, for gas used moving the trailer.

Tower Trailer: Greg, KA9FOZ, reported on the remodeling and use of the tower trailer for the Field Day. Greg has several additional ideas, and received several suggestions for further improvements. Club members expressed their appreciation to Greg for a job well done.

Membership: Kent, W9LZQ, reported on the letter he sent to former members encouraging them to rejoin and pay their dues. The club had 86 paid members through June 1994.

Publicity: Dick, KØJYB, reported on complications or non-response to coverage by the media of Field Day for our club.

Skywarn: Kent, W9LZQ, reported on the ground breaking for Friday, July 15, 1994 at 9:30 a.m. for the new installation and radar operation of the National Weather Service. Bruce, K9CUT, will represent R.A.R.C. All members are welcome.

OLD BUSINESS

Mark, N9UNW, made a motion, with a second from Dan, N9PZC, to place back on the table the discussion from last meeting about establishing a system of net managers and a net coordinator for the club. The motion passed. Then, Karl, KB9EQI, made a motion, with a second by Mike, N9LXI, to establish a net coordinator and a team of net managers for the club. After considerable discussion, the motion passed. Mike, N9LXI, volunteered to serve as the net coordinator, and Bob, N9LZK, Karl, KB9EQI, Feroz, WU9N, Clarence, N9NXW, and Rob, KA9BMV, volunteered to be net managers. They and anyone interested will meet with Mike, N9LXI, for training and coordination.

Extend Meeting: Karl, KB9EQI, made a motion which was seconded by Bob, N9LZK, and passed, to extend the meeting.

NEW BUSINESS

Amateur Radio Weekend: Kent, W9LZQ, reported that September 17, 1994 is being targeted as the date for a promotional effort with the public to seek new amateur radio operators (HAMS). He is looking for volunteers to serve on a committee to work out the details, location, etc.

Annual Dinner: President Feroz, WU9N, reported that he has reserved Ardie's Restaurant for the annual dinner/Christmas party on January 14, 1995.

Picnic: The picnic with the Winona club and other interested hams is scheduled for August 20, 1994 at Perrot State Park in Trempealeau.

Repeater Problem: Joe, WA9SOQ, and others, reported that they were experiencing "irregularities" with the 146.97 repeater. It is unknown if the problems are "skip/band openings/inter-mod" or whatever. Walt, AA9AW, will monitor the situation and seek a solution.

Radio Repair: Kent, W9LZQ, made a motion, which was seconded by Tom, WB9BJQ, and then passed to reimburse Dick, KØJYB, for the cost of repair to his Kenwood TS440-S, which began malfunctioning after use at Field Day.

Joe, WA9SOQ, made a motion which was second by Bob, N9LZK, for adjournment, which was passed.

Respectfully submitted:
Mark A. Smick, Treasurer/
Acting Secretary

Wisconsin Valley Radio Association

Dee Duckett, N9SDM, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.74 Input/51.24 Output

No material for publication had been received from the WVRA at press time.

FCC ISSUED CALL SIGN UPDATE

The following is a list of the FCC's most recently issued call signs as of July 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
Ø	AAØRE	KGØNM	+ +	KBØNHL
1	AA1JH	KD1VH	N1SCZ	KB1BIG
2	AA2SM	KF2VW	N2ZDJ	KB2QZR
3	AA3HY	KE3NH	N3SFO	KB3BCL
4	AD4SV	KR4TT	+ +	KE4MXM
5	AB5UN	KJ5YG	+ +	KC5HFC
6	AC6CT	KO6DF	+ +	KE6IFY
7	AB7CQ	KI7ZD	+ +	KC7DBL
8	AA8OZ	KG8JG	+ +	KB8TAT
9	AA9KY	KF9WC	N9XGH	KB9IYT
N. Mariana	KHØD	AHØAS	KHØCS	WHØAAY
Guam	WH2E	AH2CU	KH2JW	WH2ANK
Midway	+ +	AH4AB	KH4AG	WH4AAH
Hawaii	+ +	AH6NI	WH6UZ	WH6CRG
Amer. Samoa	AH8J	AH8AG	KH8BF	WH8ABB
Alaska	+ +	AL7PQ	WL7ST	WL7CHQ
Virgin	WP2N	KP2CC	NP2HM	WP2AHU
Puerto Rico	+ +	KP4WW	+ +	WP4MPP

+ + All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB064, 7/25/94

THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT
921 8th Avenue • Grafton, WI 53024

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

ARRL 13th ANNUAL
DIGITAL COMMUNICATIONS CONFERENCE
AUGUST 19-21

This is a update on the information given in last months BSSS.

Do you operate a Digital mode (maybe Pactor, Packet, GTOR or AMTOR) now? Do you find it difficult to keep up with the latest Digital technology? Would you like to know more about Digital modes? If you answered "yes" to any of these questions, then you should attend the 13th Annual ARRL Digital Communications Conference. Read on ...

The Conference will be held on August 19 - 21, 1994 at the Thunderbird Convention Center, 2201 East 78th Street in Bloomington, Minnesota. Accommodations are available at the adjacent Thunderbird Hotel, at the many Hotels and Motels located within a short distance, and also at several area RV\camper campgrounds.

Enjoy a weekend of fun learning about the latest developments in TCP/IP, PACTOR, AMTOR, PACTOR-II, CLOVER, G-TOR, PACKET, DSP, and imaging. Participate in the nine forums about DSP, new HF modes, TCP/IP, VHF/UHF networking, BBS SYSOP issues and more. A glance at the program (attached) will show many forums that will catch your interest!

One of the highlights of the conference will be the presentation of technical papers on the many aspects of digital communications throughout the day on Saturday. You will receive a copy of all papers presented.

Many demonstrations of the latest in hardware and software will be presented. When you leave, you will have an in-depth understanding of the latest digital communications advancements and techniques. The Saturday evening Technical Showcase will feature TAPR Special Interest Group meetings for BBS SYSOPs and on VHF/UHF network building and a technical paper presentation on "Low Cost HF DSP Modems" by Johan Forrer, KC7WW.

The Hospitality Room will provide the place to meet old friends ... and make new ones. At the Saturday luncheon you will get to know "who's who" in digital communications. Meet the Engineering staff of manufacturers like Kantronics and Timewave Technologies. The optional Saturday evening diner will provide another opportunity to make new friends.

If you want a break from the Conference, the Mall of America, with hundreds of unique stores, is located within easy walking distance. Your family will enjoy Knott's Camp Snoopy theme park inside the Mall. The renowned Minnesota Zoo is only a short drive away.

The Conference registration fee is $45 per person, which includes admission to all Conference activities, a luncheon buffet and a copy of the technical papers. An optional Saturday evening buffet is $20 per person additional. Registration deadline is August 12th.

For more information about the Conference or special Airline and Motel discounts call or write:

ARRL Digital Communications Conference
C/O Paul Ramey WG0G
16266 Finland Avenue
Rosemount, MN 55068
Packet: WG0G@WA0CQG.#MSP.MN.USA.NA

The host organization for the 1994 ARRL Digital Communications Conference is the TwinsLAN Amateur Radio Club.

See YOU at the Digital Communications Conference August 19-21!

13th ANNUAL ARRL
DIGITAL COMMUNICATIONS CONFERENCE
PRELIMINARY PROGRAM

Friday, August 19

TIME	ROOM	EVENT
Noon - 6 PM	TBD	ARRL "Future Modes" Committee meeting.
Noon - 6 PM	TBD	ARRL "219-MHz" Committee meeting.
4 - 10 PM	Menominee	Conference check-in.
6 PM - 11 PM	Menominee	Hospitality & Demo area open

Saturday, August 20

TIME	ROOM	EVENT
6:30 - Noon	Menominee	Hospitality & Demo area open
7:00 - Noon	Menominee	Conference Check-in.
8:00 - 8:15 AM	Miami	Conference "Welcome"
8:30 - 10:00 AM	Miami	Technical Paper Presentation
8:30 - 10:00 AM	Yakima	Forum - Developments in DSP For the Amateur.
8:30 - 10:00 AM	Shoshone	Forum - TCP/IP - What's next?
10:00 - 10:15 AM	All	Break
10:15 - 11:45 AM	Miami	Technical Paper Presentation
10:15 - 11:45 AM	Yakima	Forum - ARRL Committee Updates: "Future Modes": Moderator - Paul Rinaldo W4RI and "219-MHz Networking": Moderator - Tod Olson K0TO"
10:15 - 11:45 AM	Shoshone	Forum - Digital Data (Voice and Image) Transmission Method Developments.
11:45 - Noon	AM All	Break
Noon - 1:00	PM Miami	Buffet Luncheon (Included)
1:00 - 5:30	PM Menominee	Hospitality & Demo area open
1:15 - 2:45	PM Miami	Technical Paper Presentation
1:15 - 2:45	PM Yakima	Forum - High-Speed (above 1200 baud) data transfer methods and networking techniques.
1:15 - 2:45	PM Shoshone	Forum - HF Data Transmission Methods - An Over-view of Current Modes and What's Coming Next.
2:45 - 3:00	PM All	Break
3:00 - 4:30	PM All	Continuation of all sessions
5:30 - 6:30	PM Miami	Buffet Diner (Optional)
7:00 - 11:00	PM Menominee	Hospitality & Demo area open
7:00 - 10:00	PM Miami	Tucson Amateur Packet Radio (TAPR) Presents Special Interest Groups: - Packet BBS SYSOPs - VHF/UHF Network Building
7:00 - 10:00	PM Yakima	American Digital Radio Society (ADRS) presents a technical presentation: "Low-cost HF DSP Modems" by Johan Forrer, KC7WW

Sunday, August 21

TIME	ROOM	EVENT
8:30 - Noon	Menominee	Hospitality & Demo area open
10:00 - 11:00	Menominee	Conference wrap-up and close.

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The man noticed that he had no spoon for his cofee. Waiter, he said...this coffee is too hot for me to stir with my finger. The waiter soon returned with another cup of coffee. Here. Try this one...It's not as hot.

By the time a man realizes that may be his father was right, he has a son who thinks he is wrong.

You have heard of low-cal and no-cal diets?...Now ther's a new diet plan. You eat only what you can afford...It is called fis-cal.

A saturday morning golfer observed two small boys watching him and remarked. You boys will never learn by watching me. We are not interested in golf, mister...said the youngsters...We are going fishing as soon as you dig up some worms.

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THE TESTPOINT
(continued from page 3)

The following information received from ARRL Headquarters VEC.

Out of State Exams

Information Provided by the ARRL/VEC

The FCC has been taking up to 12-14 weeks to process license applications. We believe that the delay may begin to shorten now since the summer usually has a lower activity level than the spring, and the FCC has begun focusing additional daily staff as well as some overtime staff on the task. Also, worth noting is that as of June 8, 1994, the FCC has begun printing "TECH PLUS" licenses for those who have qualified. Lastly, also effective June 8th, the FCC will no longer be issuing fresh ten-year term licenses for actions on other than new licenses or renewals (upgrades, call sign changes, name changes or address changes will carry the previous license expiration date).

NORTHERN ILLINOIS
08/13/94, Dixon, 815-284-6380, Charles W Randall
08/13/94, Oak Forest, 708-448-0580, David Brasil, NF9N
08/16/94, Aurora, 708-879-2217, Alan Ahasic
08/27/94, Chicago, 312-233-0605, Harold Prichard Jr
09/10/94, Oak Forest, 708-448-0580, David Brasil, NF9N
09/14/94, Chicago, 312-465-0981, Michael Leibovitz
09/20/94, Aurora, 708-879-2217, Alan Ahasic
09/27/94, Chicago, 312-233-0605, Harold Prichard Jr
10/08/94, Oak Forest, 708-448-0580, David Brasil, NF9N
10/12/94, Chicago, 312-465-0981, Michael Leibovitz
10/18/94, Aurora, 708-879-2217, Alan Ahasic
10/22/94, Chicago, 312-233-0605, Harold Prichard Jr
10/29/94, Mt Carroll, 815-777-1002, Herbert Scarpelli
11/09/94, Chicago, 312-465-0981, Michael Leibovitz
11/12/94, Oak Forest, 708-448-0580, David Brasil, NF9N
11/13/94, Danville, 317-793-3573, Betty Collins
11/15/94, Aurora, 708-879-2217, Alan Ahasic
11/26/94, Chicago, 312-233-0605, Harold Prichard Jr
12/10/94, Oak Forest, 708-448-0580, David Brasil, NF9N
12/20/94, Aurora, 708-879-2217, Alan Ahasic

EASTERN IOWA
08/13/94, Clinton, 319-242-9486, Roger Gorzney
08/20/94, Dubuque, 319-557-9149, Carl E Clark
10/08/94, Clinton, 319-242-9486, Roger Gorzney
11/19/94, Dubuque, 319-557-9149, Carl E Clark
12/10/94, Clinton, 319-242-9486, Roger Gorzney
04/08/95, Clinton, 319-242-9486, Roger Gorzney
06/10/95, Clinton, 319-242-9486, Roger Gorzney
08/12/95, Clinton, 319-242-9486, Roger Gorzney
10/14/95, Clinton, 319-242-9486, Roger Gorzney
12/09/95, Clinton, 319-242-9486, Roger Gorzney

UPPER MICHIGAN
09/10/94, Harvey, 906-249-3837, Richard Schwenke
10/08/94, Houghton, 906-337-2542, George R Thurner
12/03/94, Harvey, 906-249-3837, Richard Schwenke

MINNESOTA
08/06/94, Hutchinson, 612-587-8736, Roger Vacek WA0OEU
08/06/94, St Paul, 612-222-7253, John Bellows
08/13/94, N Branch, 612-444-9814, Bradley Fern
08/20/94, Cottage Grove, 612-459-8678, David Harrell
09/03/94, St Paul, 612-222-7253, John Bellows
09/10/94, Bloomington, 612-888-6187, Jerry Jensen
09/17/94, Cottage Grove, 612-459-8678, David Harrell
10/01/94, St Paul, 612-222-7253, John Bellows

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Customer, looking at alarm clock, to salesperson. I want one that rings once and gives up.

We were sitting around watching one of this season's sorry television shows when my son said. Let's turn off the TV and watch the kitten.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959

The July 19, 1994 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:36 p.m. by club vice president, Bill Klinkner, N9KXX.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: Field day activities held June 25th and 26th at Owen park were discussed. Photographs taken Saturday evening were shown to the group. It was noted that there was lots of fun, lots of food and several contacts made. State Representative Brancel visited the site and was given a tour, information about field day and amateur radio. It was a good weekend (the storm not withstanding) and a fun time was had by all. Steve Schulze, N9UDO and Bill Hommel, KA9QFJ gave a report on their involvement in a balloon launch from Wonewoc airport. A comment was made that the Baraboo police department be notified when the club has a fox hunt. Also discussed was the Christmas party and what the club could do to recognize and celebrate it's twenty-fifth year anniversary.

NEW BUSINESS: David W. Spearing, KB9CSW submitted his application to be a club member. He was accepted unanimously as a new member. Bill Klinkner suggested that in addition to discussing plans for the anniversary and the Christmas party at the next meeting, the club should decide on when to offer classes. Buck night was won by Steve Schulze (four bucks). Meeting adjourned at 8:15 and reconvened outside for the program on VHF contesting.

The next meeting will be held Wednesday August 17, 1994 in room 14 at the Baraboo Civic Center. The meeting will be preceeded by a fox hunt. Members are asked to meet in the parking lot at 6:30 pm so the contest may begin at 7 p.m. It will run until 8 p.m., at which time the club meeting will be held. Refreshments will be provided.

Sincerely,
Raymond J. Matlosz, N9MLZ, Secretary

The following members and guests were present:

Bill Hommel	KA9QFJ	Baraboo
David Spearing	KB9CSW	Portage
Bill Klinkner	N9KXX	Sauk City
Jim Paul	N9LKY	Merrimac
Raymond Matlosz	N9MLZ	Reedsburg
Thomas Harrison	N9PQJ	Reedsburg
Anne Klinkner	N9PQL	Sauk City
George Gabay	N9QQR	New Lisbon
Steve Schulze	N9UDO	Baraboo
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo

==========



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TWELVE HAPPY LITTLE VOLTS

Twelve happy little Volts,
rushing down the line,

Collided with some traveling holes;
then there were nine.

Nine busy little Volts,
running rather late,

Took the wrong short-circuit path;
then there were eight

Eight worried little Volts,
feeling rather sore,

Met a pack of savage Ohms;
then there were four.

Four weary little Volts
getting rather blue;

Tried jumping valence gaps;
then there were two.

Two dog-tired little Volts,
strength almost gone,

Tried to light a six-volt lamp;
then there were none.

from the October '93 Metropolitan ARC (North Little Rock AR) "Marc Barc"
Dora Anna Graziani, NI5D, Editor. via ARNS

After a member of the church missed three services in a row, the minister called on him to ask why. Peterson, the man said...my clothes are shabby, and I'm ashamed to go. So the minister got a complete new outfit for him...But the next Sunday the man still didn't show...The minister paid him another visit...He found him sitting on his front porch all dressed up. What's the matter, Peterson?...He asked...I expected to see you today. Well, I'll tell you, Peterson said...When I put on these new clothes, I looked so prosperous I went to the rich church instead.

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SWAPFESTS

W.A.R.A.C. MEMORIAL SCHOLARSHIPS

1993 WINNERS
Timothy J. Czerwonka, WO9U, Chetek
Robert J. Geemans, N9HAD, Madison
Karen M. Schneider, N9BVA, Appleton

23rd ANNUAL MIDWINTER

SWAPFEST

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WAUKESHA, WISCONSIN

SUNDAY
JANUARY 8, 1995

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(414) 762-3235
P.O. Box 102

Extension 58
South Milwaukee, WI 53172

Fox Cities Hamfest

November 6, 1994

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:
Larry Siebers, KD9IA
414-788-3823

Lakeshore Hamfest
& Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

Saturday, May 13, 1995

For more information, call:

Ron, WS9X: 414-793-4733 (Nights)
Red, N9GHE: 414-684-9097

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16th Annual

CWRA SWAPFEST

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: Art Wysocki, N9BCA
3356 April Lane

715-344-2984
Stevens Point, WI 54481

EAU CLAIRE
Amateur Radio Club
SWAPFEST

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Carol Ceraso
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Liz Searing
(715) 834-1303

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Ozaukee Radio Club

8 a.m. to 1 p.m. • Circle B Recreation Center
Intersection of Highway 60 and County I
Exams by Badger Examiners, c/o Gary Sharbuno,
5119 W. Willow Rd., Brown Deer, WI 53223
Swapfest sponsored by Ozaukee Radio Club
W70 N1018 Hampton Court • Cedarburg, WI 53012

Kettle Moraine Radio Amateurs

SWAPFEST

Sunday, October 23, 1994

Waukesha County Expo Center

Info: KMRA Swapfest
P.O. Box 411
Waukesha, WI 53187-0411

Northern Wisconsin Radio Club

AUCTION

February 28, 1995 • 7:00 p.m.

American Legion Post 53 ◦ 634 Water Street
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
Route 1 Box 54

715-665-2374
Knapp, WI 54749

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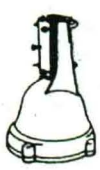
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